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**west virginia** department of environmental protection

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Division of Air Quality  
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Charleston, WV 25304  
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Jim Justice, Governor  
Austin Caperton, Cabinet Secretary  
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January 31, 2017

Scott B. Whitwer  
State Route 2  
Apple Grove, WV 25502-0088

Re: M&G Polymers, USA, LLC  
Apple Grove Facility  
Permit No. R13-1650S  
Plant ID No. 053-00054

Dear Mr. Whitwer:

Your application for a permit as required by Section 5 of 45CSR13 - "Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permit, General Permit, and Procedures for Evaluation" has been approved. The enclosed permit R13-1650S is hereby issued pursuant to Subsection 5.7 of 45CSR13. Please be aware of the notification requirements in the permit which pertain to commencement of construction, modification, or relocation activities; startup of operations; and suspension of operations.

The source is subject to 45CSR30. The permittee has the duty to update the facility's Title V (45CSR30) permit application to reflect the changes permitted herein.

In accordance with 45CSR30- Operating Permit Program, the permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §§22-5-14.

Should you have any questions or comments, please contact me at (304) 926-0499, extension 1257.

Sincerely,

John Legg  
DAQ Permit Writer

Enclosures

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*West Virginia Department of Environmental Protection*

*Jim Justice  
Governor*

*Division of Air Quality*

*Austin Caperton  
Cabinet Secretary*

# Class II Administrative Update



**R13-1650S**

*This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45 C.S.R. 13 — Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation. The permittee identified at the facility listed below is authorized to construct the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.*

Issued to:

**M & G Polymers USA, LLC**  
**Apple Grove, WV**  
**053-00054**

A blue ink signature of William F. Durham is written over a horizontal line.

*William F. Durham*  
**Director**

*Issued: January 31, 2017*

This permit will supersede and replace Permit R13-1650R.

Facility Location: Apple Grove, Mason County, West Virginia  
Mailing Address: State Route 2, Apple Grove, WV 25502-0088  
Facility Description: The facility manufactures raw polyethylene terephthalate (PET) material.  
SIC Codes: 2821  
UTM Coordinates: 397.8 km Easting • 4,280.0 km Northing • Zone 17  
Permit Type: Class II Administrative Update  
Description of Change: This Class II Administrative Update will:  
-Remove production line CSS-7. Equipment is non-operational.  
-Increase the production rates and resulting emission rates for lines CSS-12 and CSS-13.  
-Incorporate minor changes in design capacities for the crystallizers and pre-heaters.  
-Incorporate the change in heat transfer fluid in the CP-3 Unit. Change approved in PD15-099 on December 3, 2015. The heat transfer material is used in a closed loop system, and there were no equipment changes associated with the change. During normal operations emissions are vented to the Hot Oil Heater (C3T-B-1600) during stripping.  
-Incorporate M&G's massive "cleanup" effort to update the permit, i.e., deleting, adding, moving, correcting entries in the emission units table and the emission limits appendices tables.  
-Remove the CO concentration limit and the annual stack test requirement for the Bono/Hot Oil Heater (C3-F-1700).

*Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.*

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*The source is subject to 45 C.S.R. 30. The permittee has the duty to update the facility's Title V (45 C.S.R. 30) permit application to reflect the changes permitted herein.*

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## 1.0 Emission Units

Emission Point ID	Control Device	Emission Unit ID	Emission Unit Description	Design Capacity	Year Installed
<b>CP3</b>					
3P-3130	C3S-M-3120 Bin Vent	C3S-F-3080	North Recycle Silo	2,154 ft <sup>3</sup> Tank 179 ft <sup>2</sup> Bin Vent	2004*
3P-3190	None	C3L-F-3190	CP3 DEG Charge Tank	275 Gallons	1994
3P-1070	None	C3L-F-1070	CP3 Recupic EG Tank	12,700 Gallons	1994
3P-1071	None	C3L-F-1071	CP3 Recupic EG Tank	12,700 Gallons	1994
3P-1072	None	C3L-F-1072	CP3 Recupic EG Tank	12,700 Gallons	1994
3P-1032	None	C3L-F-3180	CP3 Additive Make-up Tank	1,730 Gallons	1994*
		C3L-F-3140	CP3 R/1 EG Charge Tank	1,730 Gallons	1994
		C3L-F-3150	CP3 R/2 EG Charge Tank	275 Gallons	1994
3P-2100	C3S-M-2100 Bin Vent	C3H-F-2010	IPA Storage Bin Silo	530 ft <sup>3</sup> Silo 66 ft <sup>2</sup> Bin Vent	2001*
3P-7020	C3L-F-7020 Seal Pot	C3L-F-6010	CP3 Catalyst Makeup Tank	455 ft <sup>3</sup>	2001*
		C3L-F-7010	CP3/CP4 Catalyst Charge Tank	455 ft <sup>3</sup>	2001*
		C3L-F-8010	CP3/CP4 Toner Make-up Tank	277 ft <sup>3</sup>	2001
		C3L-F-9010	CP3/CP4 Toner Charge Tank	277 ft <sup>3</sup>	2001
3P-8	None	UTG-F-3020	CP3 EG #1 Storage Tank	648,699 Gallons	1966*
3P-9	None	UTG-F-3010	CP3 EG #2 Storage Tank	648,699 Gallons	1966*
3P-1120	None	C3L-F-1120	CP3/CP4 Recupic EG Dump Tank	5,000 Gallons	1994
3P-1210	None	C38-E-1210	CP3 Pellet Dryers	20,000 pph	1994*
3P-3210	None	C38-E-3210	CP3 Pellet Dryers	20,000 pph	1994*
3P-5210	None	C38-E-5210	CP3 Pellet Dryers	20,000 pph	1994*
3P-7210	None	C38-E-7210	CP3 Pellet Dryers	20,000 pph	2007*
3P-0200	L4A-M-0200 Bin Vent	L4A-F-0200	CP3 Melt Off Spec Silo	1,740 ft <sup>3</sup> Tank 106 ft <sup>2</sup> Bin Vent	1994*
3P-0650	None	C3T-F-0650	CP3 Exhaust Gas Condensate Hold Tank	58 ft <sup>3</sup>	1994
3P-1730	None	C3U-F-1730	CP3 R/3 TEG Bath	8" x 30" t/t	1994
3P-1900	None	C3T-F-1900	CP3 Refrigerant Surge Tank	955 Gallons	1994
3P-4620	None	C3T-F-4620	CP3 Condensed Dowtherm Receiver	116 Gallons	1994
3P-5010	C3S-M-5010 Bin Vent	C3S-F-5010	Master Recycle Silo	4,000 ft <sup>3</sup> Silo 315 ft <sup>2</sup> Bin Vent	1974/2010*
3P-7260	None	C3T-F-7260	CP3 Hot Oil Storage Tank	17,700 Gallons	1994

Emission Point ID	Control Device	Emission Unit ID	Emission Unit Description	Design Capacity	Year Installed
3P-1600	C3T-B-1600 Hot Oil Heater	C3L-F-2200	CP3 Colorant Make-up	400 Gallons	1994*
		C3L-F-2201	CP3 Colorant Charge Tank	400 Gallons	1994
		C3L-F-3160	CP3 Stabilizer Charge Tank	275 Gallons	1994
		C3L-F-4211	CP3/CP4 Stabilizer Make-up Tank	400 Gallons	1994
		C3L-F-4100	CP3/CP4 Stabilizer Surge Tank	516 Gallons	1994
		C3L-F-4210	CP3/CP4 Stabilizer Make-up Tank	400 Gallons	1994
		C3L-F-5040	CP3/CP4 Stabilizer Surge Tank	486 Gallons	1994
		C3H-F-1020	CP3 Slurry Mix Tank	607 ft <sup>3</sup>	2001*
		C3H-F-3010	CP3 Slurry Feed Tank	1,319 ft <sup>3</sup>	2001*
		C31-E-1020/ 1020A/1021	CP3 R/1 System	2,970 Gallons	1994*
		C32-E-1050/1051	CP3 R/2 System	2,970 Gallons	1994*
		C33-F-2250	CP3 R/3 System	2,517 Gallons	1994
		C33-F-6010	CP3 R/3 Bis Condensate Tank	1,660 Gallons	2001*
		C34-F-5020	CP3 R/4A/B System	1,700 pph	1994*
		C31-F-1220	CP3 R/1 & R/2 Condensate Tank	7,383 pph	1994
		C33-F-2260	CP3 R/3 Condensate Tank	679 gpm/ 897 gallons	1994*
		C34-F-2290	CP3 R/4A Condensate Tank	459 gpm/ 897 gallons	1994*
		C34-F-8290	CP3 R/4B Condensate Tank	744 gpm/ 897 gallons	2007*
		C3T-F-0600	Knock Out Pot	N/A	1994
		C3H-F-4020	Seal Pot	5.6 pph	1994
		C3T-F-2670	CP3 RP Lites Tank	6,000 Gallons	1994*
		C3L-F-3170	CP3 R2 Catalyst Tank	275 Gallons	1994*
		C3L-F-5990	CP4 Additive Charge Tank	275 Gallons	1996*

**CP4**

4P-1020	C4S-M-1040 Bin Vent	C4S-F-1020	CP4 TPA Surge Silo	198 ft <sup>3</sup>	1996*
4P-2100	C4S-M-2100 Baghouse	C4S-F-2050	CP4 IPA Surge Silo	1,100 ft <sup>3</sup> 66 ft <sup>2</sup>	1996*
4P-3130	C4S-M-3130 Bin Vent	C4S-F-3080	South Recycle Silo	1,170 ft <sup>3</sup> Tank 235 ft <sup>2</sup> Bin Vent	1993*
4P-3190	None	C4L-F-3190	CP4 DEG Charge Tank	275 Gallons	1996
4P-1070	None	C4L-F-1070	CP4 Recupic EG Tank	12,700 Gallons	1996*
4P-1071	None	C4L-F-1071	CP4 Recupic EG Tank	12,700 Gallons	1996*
4P-1072	None	C4L-F-1072	CP4 Recupic EG Tank	12,700 Gallons	1996*
4P-1800	None	C4Y-F-1800	#3 CP4 EG Storage Tank	675,000 Gallons	1996*
4P-0430	None	C44-F-0430	CP4 EG Vaporizer Feed Tank	275 Gallons	1996*
4P-1032	None	C4L-F-3140	CP4 R/1 EG Charge Tank	1,742 Gallons	1996
		C4L-F-3180	CP4 R/1 Recupic EG Charge Tank	1,742 Gallons	1996
4P-1900	None	C4R-F-1900	CP4 Refrigerant Surge Tank	955 Gallons	1996

Emission Point ID	Control Device	Emission Unit ID	Emission Unit Description	Design Capacity	Year Installed
4P-4620	None	C4T-F-4620	CP4 Condensed Dowtherm Receiver	125 Gallons	1996
4P-1210	None	C48-E-1210	CP4 Pellet Dryers	13,000 pph	1996
4P-3210	None	C48-E-3210	CP4 Pellet Dryers	13,000 pph	1996
4P-5210	None	C48-E-5210	CP4 Pellet Dryers	13,000 pph	1996
4P-4120	None	L24-M-4120	CP4 Pellet Filter Receiver	318 ft <sup>2</sup>	1993
4P-1730	None	C4U-F-1710	CP4 R4 TEG Bath	32" x 60" t/t	1996
None (previously 4P-1296)	None	C4Q-A-1296	CP4 Extruder MCU	4,760 pph	2004*
4P-4220	C4Q-M-4140 (glovebox) & C4Q-M-4220 HEPA Filter	C4Q-F-1290	CP4 Feed Hopper System	0.75 m <sup>3</sup>	2004*
4P-4180	C4Q-M-4190 HEPA Filter	C4Q-F-2290	CP4 Feed Hopper System	0.75 m <sup>3</sup>	2004*
4P-4160	C4Q-M-4160 HEPA Filter	C4Q-F-3290	CP4 Feed Hopper System	0.75 m <sup>3</sup>	2004*
4P-1600	C4T-B-1600 Hot Oil Heater	C4V-F-1010	CP3/CP4 MACT Tank	10,000 Gallons	2001*
		C4L-F-3160	CP4 Stabilizer Charge Tank	275 Gallons	1996
		C4L-F-2120	CP4 Catalyst Charge Tank	275 Gallons	1996
		C4L-F-3170	CP4 R2 Catalyst Charge Tank	830 Gallons	1996*
		CP4-F-0510	CP4 EG Vaporizer Knockout Tank	1,100 Gallons	1996*
		C41-E-3020/3021	CP4 R/1 System	2,970 Gallons	1996*
		C42-E-2050/2060	CP4 R/2 System	2,970 Gallons	1996*
		C43-F-3250	CP4 R/3 Flash Tank	120 Gallons	1996*
		C44-F-9280	CP4 R/4 System	140 Gallons	1996*
		C41-F-3220	CP4 R/1 & R/2 Separator	90 Gallons	1996
		C43-F-2260	CP4 R/3 Condensate Tank	1,660 Gallons	1996
		C44-F-2290	CP4 R/4 Condensate Tank	1,660 Gallons	1996
		C44-F-3300	CP4 R/4 Hot Well Tank	935 Gallons	1996*
		C3L-F-5980	Make-up Tank	533 Gallons	1994*
		C4T-F-8670	Dowtherm Lights Tank	6,000 Gallons	1988*
		C4Q-A-1297	CP4 Bico Extruder Vent	2,800 lb/hr	2007*
		C4H-F-3010	CP4 Slurry Mix/Feed Tank	1,319ft <sup>3</sup>	2011
		C4T-F-0600	Knock Out Pot	NA	NA
P-7640	None	C4T-F-7640	CP4 Hot Oil Storage Tank	16,725 Gallons	1996*
4P-2002	C4Q-M-5300 Baghouse	C4Q-F-5000	CP4 Feed Hopper System	830 ft <sup>3</sup>	2007*
4P-0001	C4Q-M-0001/ C4Q-F-0001 Baghouses	C4Q-F-5010	CP4 Feed Bin	0.75 m <sup>3</sup>	2007



Emission Point ID	Control Device	Emission Unit ID	Emission Unit Description	Design Capacity	Year Installed
NA	None	C4Q-F-5330	CP4 Box/Bag Loader	NA	2007
<b>CSS-8</b>					
8E-1340	S8A-M-1340 Bin Vent	S8A-F-1410	Crystallizer Blend Feed Silo	3,500 ft <sup>3</sup> Blender Silo 424 ft <sup>2</sup> Bin Vent	1991*
8E-02	S8A-M-2390 Baghouse	S8A-F-2430	CSS-8 Crystallizer Surge Bin	1,244 ft <sup>3</sup> Silo 106 ft <sup>2</sup> Dust Collector	1991*
8E-03	S8A-M-3360 Baghouse	S8A-F-3240 S8A-B-3010	CSS-8 Crystallizer CSS-8 Crystallizer Furnace	68.4 ft <sup>2</sup> 2.8 MMBtu/hr 2,121 ft <sup>2</sup> Dust Collector	1991*
8E-04	S8B-M-2420 Baghouse	S8B-E-2250 S8B-B-2020	CSS-8 Preheater CSS-8 Preheater Furnace	27.7 ft <sup>2</sup> / 1.2 MMBtu/hr 1,178 ft <sup>2</sup> Dust Collector	1991*
8E-05	S8D-M-1520 Baghouse	S8D-E-1280	CSS-8 Product Cooler	22.75 ft <sup>2</sup> 954 ft <sup>2</sup> Dust Collector	1991*
8E-06	S8A-M-1590 Baghouse	S8E-F-1440	CSS-8 Verification Bin	1,000 ft <sup>3</sup>	1991*
8EP-204A	L12-M-2030 Bin Vent	L12-F-2030	CSS-8 Product Storage Silo 4	4,000 ft <sup>3</sup> Silo 84 ft <sup>2</sup> Bin Vent	1987*
8EP-204B	L12-M-2040 Bin Vent	L12-F-2040	CSS-8 Product Storage Silo 3	4,000 ft <sup>3</sup> Silo 84 ft <sup>2</sup> Bin Vent	1987*
8P-4127A	L13-M-3050 Bin Vent	L13-F-3050	CSS-8 Product Storage Silo 6	4,000 ft <sup>3</sup> Silo 84 ft <sup>2</sup> Bin Vent	1987*
8P-4127B	L13-M-3060 Bin Vent	L13-F-3060	CSS-8 Product Storage Silo 5	4,000 ft <sup>3</sup> Silo 84 ft <sup>2</sup> Bin Vent	1987*
7P-4227A	L14-M-4070 Bin Vent	L14-F-4070	Product Storage Silo 8	4,000 ft <sup>3</sup> Silo 85 ft <sup>2</sup> Bin Vent	1987*
7P-4227B	L14-M-4080 Bin Vent	L14-F-4080	Product Storage Silo 7	4,000 ft <sup>3</sup> Silo 85 ft <sup>2</sup> Bin Vent	1987*
8ECS4	L11-M-1010 Bin Vent	L11-F-1010	CSS-8/CSS-9 Salvage Silo 2	4,000 ft <sup>3</sup> Silo 84 ft <sup>2</sup> Bin Vent	1987*
8P-1030	L11-U-1030	L11-U-1040	CSS-8 Fines Elutriator Silo 2	85 ft <sup>2</sup>	1991*
8P-1050	L13-M-3110	L13-P-3100	CSS-8 Fines Elutriator Silo 5&6	4,500 acfm Cyclone	1991*
8EP-208	L12-M-2050	L12-P-2050	CSS-8 Fines Elutriator Silo 3&4	641 ft <sup>2</sup>	1991*
7P-0430	L14-M-4030 Baghouse	L14-U-4040 L14-U-4050	Silo 7/8 Fines Elutriator	85 ft <sup>2</sup>	1990*
7P-2660	N/A	C2T-F-2260	T-66 Dump Tank	116 gallons	1988*
7P-9002	N/A	C27-F-7640	Hot Oil Storage	17,700 gallons	1988*
2P-9001	C2T-B-9001 Hot Oil Heater	S8B-F-1420	CSS-8 Preheater Surge Bin	930 ft <sup>3</sup>	1991*
		S8C-R-1060	CSS-8 CSS Reactor 1	2,404 ft <sup>3</sup>	1991*
		S8C-R-3070	CSS-8 CSS Reactor 2	2,404 ft <sup>3</sup>	1994*
		C2T-F-2670	T-66 Lites Tank	6,400 gallons	1994*

Emission Point ID	Control Device	Emission Unit ID	Emission Unit Description	Design Capacity	Year Installed
		C1T-F-5660	Knockout Pot	55 gallons	1976*
		C1T-F-5001	T-66 Tank	17,500 gallons	1976*

**CSS-9**

9P-7040	C29-M-7040	C29-F-7010	CSS-9 ACS North Silo	16,950 ft <sup>3</sup> Silos	2002*
		C29-F-7020	CSS-9 ACS South Silo	276 ft <sup>2</sup> Dust Collector	2002*
9P-1701A	L15-M-5140 Bin Vent	L15-F-5100	CSS-9 Verification Bin Silo 9	4,000 ft <sup>3</sup>	1988*
9P-1701B	L15-M-5130 Bin Vent	L15-F-5090	CSS-9 Verification Bin Silo 10	4,000 ft <sup>3</sup>	1988*
9P-2701A	L16-M-6170 Bin Vent	L16-F-6120	CSS-9 Product Silo 11	4,000 ft <sup>3</sup>	1988*
9P-2701B	L16-M-6160 Bin Vent	L16-F-6110	CSS-9 Product Silo 12	4,000 ft <sup>3</sup>	1988*
9P-6110	L16-M-6130	L16-P-6120	CSS-9 Fines Elutriator Silo 11&12	4,500 acfm Cyclone	1991*
9E-10	L17-M-7230 Baghouse	L17-F-7130	CSS-9 Product Silo 14	4,000 ft <sup>3</sup> Silos	1991*
		L17-F-7140	CSS-9 Product Silo 13		1991*
9E-11	L17-M-7190	L17-P-7010	CSS-9 Fines Elutriator Silo 13&14	4,500 acfm Cyclone	1991*
9P-1010	L18-M-1010 Baghouse	L18-F-2010	CSS-9 Product Silo 15	8,000 ft <sup>3</sup> /silo	2002*
		L18-F-1010	CSS-9 Product Silo 16	343 ft <sup>2</sup> Duct Collector	2002*
9P-2030	L18-M-2030	L18-P-2040	CSS-9 Fines Elutriator Silo 15	1,620 ft <sup>2</sup>	2002*
9P-1030	L18-M-1030	L18-P-1040	CSS-9 Fines Elutriator Silo 16	Dust Collector	2002*

**CSS-10**

10P-6340	C3A-M-6340 Baghouse	C3A-F-5410	CSS-10 Crystallizer Blend Silo	3,500 ft <sup>3</sup> Silo 424 ft <sup>2</sup>	1994*
10P-6390	C3A-M-6390 Bin Vent	C3A-F-6460	CSS-10 Crystallizer Surge Silo	1,570 ft <sup>3</sup> 106 ft <sup>2</sup> Bin Vent	1994*
10P-7350	C3A-M-7350 Baghouse	C3A-E-7240 C3A-B-7010	CSS-10 Crystallizer CSS-10 Crystallizer Furnace	93.5 ft <sup>2</sup> / 3.04 MMBtu/hr/ 2,121 ft <sup>2</sup> Dust Collector	1994*
10P-1130	L1A-M-1130 Bin Vent	L1A-F-1090	CSS-10 Product Silo 17	4,000 ft <sup>3</sup> Silos 235 ft <sup>2</sup> Bin Vent	1994*
		L1A-F-1100	CSS-10 Product Silo 18		
11P-0520	C3D-M-0520 Baghouse	C3D-E-1280	CSS-11 Product Cooler	9,000 pph/ 2,120 ft <sup>2</sup> Baghouse	1994*
		C3D-E-5280	CSS-10 Product Cooler	27.7 ft <sup>2</sup>	1994*
10P-6420	C3B-M-6420 Baghouse	C3B-E-6250 C3B-B-6020	CSS-10 Preheater C55-10 Preheater Furnace	27.7 ft <sup>2</sup> / 1.6 MM Btu/hr 1,178 ft <sup>2</sup> Dust Collector	1994*

Emission Point ID	Control Device	Emission Unit ID	Emission Unit Description	Design Capacity	Year Installed
10P-5590	C3E-M-5590 Baghouse	C3E-F-5440	CSS-10 Verification Bin	1,450 ft³ Silo/ 235 ft² Dust Collector	1994*
10P-1140	L1A-M-1030	L1A-P-1040	CSS-10 Fines Elutriator Silo 17&18	4,500 acfm Cyclone	1994*
3P-1600	C3B-M-5430 Filter	C3B-F-5420	CSS-10 Preheater Surge Bin	785 ft³ Silo Cartridge Filter 650 scfm @ 2 microns and 99% eff.	1994*
	C3T-B-1600 Hot Oil Heater				
	C3C-M-5470 Filter	C3C-R-5060	CSS-10 CSS Reactor	2,404 ft³	1994*
4P-1101	L4C-M-0220 Bin Vent	L4C-F-0200	8100 Silo	4000 ft³ 315 ft² Bin Vent	1976/2011*

**CSS-11**

11P-1340	C3A-M-1340 Baghouse	C3A-F-1410	CSS-11 Crystallizer Blend Silo	3,500 ft <sup>3</sup> Silo 424 ft <sup>2</sup>	1994*
11P-2390	C3A-M-2390 Bin Vent	C3A-F-2460	CSS-11 Crystallizer Surge Silo	1,570 ft <sup>3</sup> Silo 106 ft <sup>2</sup> Bin Vent	1994*
11P-3350	C3A-M-3350 Baghouse	C3A-E-3240 C3A-B-3010	CSS-11 Crystallizer CSS-11 Crystallizer Furnace	93.5 ft <sup>2</sup> / 3.04 MMBtu/hr/ 2,121 ft <sup>2</sup> Dust Collector	1994*
11P-2420	C3B-M-2420 Baghouse	C3B-E-2250	CSS-11 Preheater	27.75 ft <sup>2</sup> / 1.6 MMBtu/hr/ 1,178 ft <sup>2</sup> Dust Collector	1994*
		C3B-B-2020	CSS-11 Preheater Furnace	1,450 ft <sup>3</sup> Silo 235 ft <sup>2</sup> Dust Collector	
11P-1590	C3E-M-1590 Baghouse	C3E-F-1440	CSS-11 Verification Bin	1,450 ft <sup>3</sup> Silo 235 ft <sup>2</sup> Dust Collector	1994*
11P-1160	L1B-M-2160 Bin Vent	L1B-F-2110	CSS-11 Product Silo 19	4,000 ft <sup>3</sup> Silos 235 ft <sup>2</sup> Bin Vent	1994*
		L1B-F-2120	CSS-11 Product Silo 20		1994*
11P-2170	L1B-M-2030	L1B-P-2050	CSS-11 Fines Elutriator 19&20	4,500 acfm Cyclone	1994*
3P-1600	C3B-M-1430/ 1431 Filters C3T-B-1600 Hot Oil Heater	C38-F-1420	CSS-11 Preheater Surge Bin	785 ft <sup>3</sup> Silo Cartridge Filter 650 scfm @ 2 microns and 99% eff.	1994*
	C3C-M-1470/ 1471 Filters C3T-B-1600 Hot Oil Heater	C3C-R-1060	CSS-11 CSS Reactor	2,404 ft <sup>3</sup>	1994*

**CSS-12**

4P-0340	C4A-M-0340 Baghouse	C4A-F-0410	West CSS-12/13 Crystallizer Blend Silo	3,500 ft <sup>3</sup>	1994*
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Emission Point ID	Control Device	Emission Unit ID	Emission Unit Description	Design Capacity	Year Installed
		C4A-F-0411	East CSS-12/13 Crystallizer Blend Silo	4,000 ft <sup>3</sup>	2013*
12P-2390	C4A-M-2390 Baghouse	C4A-F-2460	CSS-12 Crystallizer Surge Bin	1,100 ft <sup>3</sup> 339 ft <sup>2</sup> Dust Collector	1996*
12P-3350	C4A-M-3350 Baghouse	C4A-E-3240	CSS-12 Crystallizer	93.5 ft <sup>2</sup> / 3.04 MM Btu/hr/ 3,699 ft <sup>2</sup> Dust Collector	1996*
		C4A-B-3010	CSS-12 Crystallizer Furnace	43 ft <sup>2</sup> / 1.6 MM Btu/hr/ 1,790 ft <sup>2</sup> Dust Collector	1996*
12P-2420	C4B-M-2420 Baghouse	C4B-E-2250	CSS-12 Preheater		
		C4B-B-2020	CSS-12 Preheater Furnace		
12P-0520	C4D-M-0520 Baghouse	C4D-E-1280	CSS-12 Product Cooler	46.6 ft <sup>2</sup> Coolers 2,922 ft <sup>2</sup> Dust Collector	1996*
		C4D-E-5280	CSS-13 Product Cooler		1996*
12P-1590	C4E-M-1590 Baghouse	C4E-F-1440	CSS-12 Verification Bin	1,450 ft <sup>3</sup> 236 ft <sup>2</sup> Dust Collector	1996*
12P-1130	L1C-M-1130 Baghouse	L1C-F-1090	CSS-12 Product Silo 21	4,000 ft <sup>3</sup> 320 ft <sup>2</sup> Dust Collector	1996*
		L1C-F-1110	CSS-12 Product Silo 22		
12P-1140	L1C-M-2030 Baghouse	L1C-P-2040	CSS-12 Fines Elutriator Silo 21&22	378 ft <sup>2</sup> Dust Collector	1996*
12P-0390	L4C-M-0390 Baghouse	L4C-F-0210	CSS-12/CSS-13 Salvage Silo	1,500 ft <sup>3</sup>	1996
4P-1600	C4B-M-1430/1431 Filter C4T-B-1600 Hot Oil Heater	C4B-F-1420	CSS-12 Preheater Surge Bin	785 ft <sup>3</sup> Silo Cartridge Filter 650 scfm @ 2 microns and 99% eff.	1996*
	C4B-M-3700/3701 Filter C4T-B-1600 Hot Oil Heater	C4C-R-3070	CSS-12 2nd Reactor	2,110 ft <sup>3</sup>	1996*
	C4C-M-4070/4071 Filter C4T-B-1600 Hot Oil Heater	C4C-R-1060	CSS-12 1st Reactor	1,958 ft <sup>3</sup>	1996*

**CSS-13**

Emission Point ID	Control Device	Emission Unit ID	Emission Unit Description	Design Capacity	Year Installed
13P-6390	C4A-M-6390 Baghouse	C4A-F-6460	CSS-13 Crystallizer Surge Bin	1,100 ft <sup>3</sup> 339 ft <sup>2</sup> Dust Collector	1996*
13P-7350	C4A-M-7350 Baghouse	C4A-E-7240	CSS-13 Crystallizer	93.5 ft <sup>2</sup> /	1996*
		C4A-B-7010	CSS-13 Crystallizer Furnace	3.04 MM Btu/hr 3,699 ft <sup>2</sup> Dust Collector	
13P-6420	C4B-M-6420 Baghouse	C4B-E-6250	CSS-13 Preheater	43 ft <sup>2</sup> /	1996*
		C4B-B-6020	CSS-13 Preheater Furnace	1.6 MM Btu/hr 1,790 ft <sup>2</sup> Dust Collector	
13P-5590	C4E-M-5590 Baghouse	C4E-F-5440	CSS-13 Verification Bin	1,450 ft <sup>3</sup> 236 ft <sup>2</sup> Dust Collector	1996*
13P-1130	L1C-M-1130 Baghouse	L1D-F-1110	CSS-13 Product Silo 23	4,000 ft <sup>3</sup> Silos	1996*
		L1D-F-1120	CSS-13 Product Silo 24	320 ft <sup>2</sup> Dust Collector	1996*
13P-1170	L1C-M-2030 Baghouse	L1D-P-2040	CSS-13 Fines Elutriator Silo 23&24	378 ft <sup>2</sup> Dust Collector	1996*
4P-1600	C4B-M-5430 Filter C4T-B-1600 Hot Oil Heater	C4B-F-5420	CSS-13 Preheater Surge Bin	1,390 ft <sup>3</sup> Silo Cartridge Filter 650 scfm @ 2 microns and 99% eff.	1996*
	C4C-M-7700 Filter C4T-B-1600 Hot Oil Heater	C4C-R-7070	CSS-13 2nd Reactor	2,110 ft <sup>3</sup>	1996*
	C4C-M-5470 Filter C4T-B-1600 Hot Oil Heater	C4C-R-5060	CSS-13 1st Reactor	1,958 ft <sup>3</sup>	1996*

**Hot Oil Heaters**

3P-1600	None	C3T-B-1600	Hot Oil Heater	53.1 MMBtu/hr	1994
4P-1600	None	C4T-B-1600	Hot Oil Heater	53.1 MMBtu/hr	1996
2P-9001	None	C2T-B-9001	Hot Oil Heater	24 MMBtu/hr	1988
3P-1700	None	C3T-F-1700	Hot Oil Heater (Bono Heater with continuous O <sub>2</sub> trim system)	23.0 MMBtu/hr	2007

**Boilers and Heaters**

U-B-2010	None	UGS-B-2010	WWTP Portable Boiler	14.2 MMBtu/hr	2010
U-B-1633 (old U-B-1004)	None	U3S-B-1633	Dept 155 Unit Heater North Staircase	0.26 MMBtu/hr	2009
U-B-1100 (old U-B-1005)	None	U3S-B-1100	Dept 155 Unit Heater East Staircase	0.26 MMBtu/hr	2009

Emission Point ID	Control Device	Emission Unit ID	Emission Unit Description	Design Capacity	Year Installed
U-G-1631 (old U-B-1050)	None	U3S-G-1631	Dept 155 Unit Heater Maint Shop 1	0.26 MMBtu/hr	2009
U-B-1632 (old U-B-1060)	None	U3S-G-1632	Dept 155 Unit Heater Maint Shop 2	0.26 MMBtu/hr	2009
U-B-1071 (old U-B-4001)	None	U2S-B-1071	CP2 Unit Heater 1 <sup>st</sup> Fl No 1	0.26 MMBtu/hr	2009
U-B-1072 (old U-B-4002)	None	U2S-B-1072	CP2 Unit Heater 1 <sup>st</sup> Fl No 2	0.26 MMBtu/hr	2009
U-B-1010 (old U-B-1006)	None	U4S-B-1010	Dept 155 Unit Heater West Staircase	0.26 MMBtu/hr	2009*
U-B-1851 (old U-B-1007)	None	MDU-B-1851	Main Maintenance Shop Unit 1	0.25 MMBtu/hr	1994/2009*
U-B-1852 (old U-B-4003)	None	MDU-B-1852	Main Maintenance Shop Unit 2	0.25 MMBtu/hr	1994/2009*
U-B-1853 (old U-B-4004)	None	MDU-B-1853	Main Maintenance Shop Unit 3	0.25 MMBtu/hr	1994/2009*
U-B-1000	None	MDU-B-1000	Warehouse Unit MDU-B-1000	0.1 MMBtu/hr	1994*
U-B-1001	None	MDU-B-1001	Warehouse Unit MDU-B-1001	0.125 MMBtu/hr	1994*
U-B-1002	None	MDU-B-1002	Warehouse Unit MDU-B-1002	0.26 MMBtu/hr	1994/ 2015*
U-B-1003	None	MDU-B-1003	Warehouse Unit MDU-B-1003	0.2 MMBtu/hr	1994*
U-B-1004	None	MDU-B-1004	Warehouse Unit MDU-B-1004	0.2 MMBtu/hr	1994*
U-B-1005	None	MDU-B-1005	Warehouse Unit MDU-B-1005	0.2 MMBtu/hr	1994*
U-B-1006	None	MDU-B-1006	Warehouse Unit MDU-B-1006	0.26 MMBtu/hr	1994/ 2015*
U-B-1007	None	MDU-B-1007	Warehouse Unit MDU-B-1007	0.26 MMBtu/hr	1994/ 2015*
U-B-1008	None	MDU-B-1008	Warehouse Unit MDU-B-1008	0.26 MMBtu/hr	1994/ 2015*
U-B-1009	None	MDU-B-1009	Warehouse Unit MDU-B-1009	0.125 MMBtu/hr	1994*
U-B-1010	None	MDU-B-1010	Warehouse Unit MDU-B-1010	0.125 MMBtu/hr	1994*
U-B-1011	None	MDU-B-1011	Warehouse Unit MDU-B-1011	0.165 MMBtu/hr	1994*
U-B-1012	None	MDU-B-1012	Warehouse Unit MDU-B-1012	0.165 MMBtu/hr	1994*
U-B-1013	None	MDU-B-1013	Warehouse Unit MDU-B-1013	0.26 MMBtu/hr	1994/ 2015*
U-B-1014	None	MDU-B-1014	Warehouse Unit MDU-B-1014	0.2 MMBtu/hr	1994*
U-B-1015	None	MDU-B-1015	Warehouse Unit MDU-B-1015	0.165 MMBtu/hr	1994*
U-B-1016	None	MDU-B-1016	Warehouse Unit MDU-B-1016	0.2 MMBtu/hr	1994*
U-B-1017	None	MDU-B-1017	Warehouse Unit MDU-B-1017	0.26 MMBtu/hr	1994/ 2015*
U-B-1018	None	MDU-B-1018	Warehouse Unit MDU-B-1018	0.26 MMBtu/hr	1994/ 2015*
U-B-1019	None	MDU-B-1019	Warehouse Unit MDU-B-1019	0.26 MMBtu/hr	1994/ 2015*
U-B-1020	None	MDU-B-1020	Warehouse Unit MDU-B-1020	0.2 MMBtu/hr	1994*
U-B-1021	None	MDU-B-1021	Warehouse Unit MDU-B-1021	0.2 MMBtu/hr	1994*
U-B-1022	None	MDU-B-1022	Warehouse Unit MDU-B-1022	0.25 MMBtu/hr	1994*

Emission Point ID	Control Device	Emission Unit ID	Emission Unit Description	Design Capacity	Year Installed
U-B-1023	None	MDU-B-1023	Warehouse Unit MDU-B-1023	0.26 MMBtu/hr	1994/ 2015*
U-B-1024	None	MDU-B-1024	Warehouse Unit MDU-B-1024	0.26 MMBtu/hr	1994/ 2015*
U-B-1025	None	MDU-B-1025	Warehouse Unit MDU-B-1025	0.25 MMBtu/hr	1994*
U-B-1026	None	MDU-B-1026	Warehouse Unit MDU-B-1026	0.25 MMBtu/hr	1994*
U-B-1027	None	MDU-B-1027	Ad Min Water Heater	0.20 MMBtu/hr	2004*
U-B-1081	None	MDU-B-1081	Storeroom Unit MDU-B-1081	0.25 MMBtu/hr	1994*
U-B-1082	None	MDU-B-1082	Storeroom Unit MDU-B-1082	0.25 MMBtu/hr	1994*
U-B-1083	None	MDU-B-1083	Storeroom Unit MDU-B-1083	0.25 MMBtu/hr	1994*
U-B-1401	None	MDU-B-1401	Construction Shop Unit MDU-B-1401	0.25 MMBtu/hr	1994*
U-B-1402	None	MDU-B-1402	Construction Shop Unit MDU-B-1402	0.25 MMBtu/hr	1994*
U-B-1403	None	MDU-B-1403	Construction Shop Unit MDU-B-1403	0.25 MMBtu/hr	1994*
U-B-1404	None	MDU-B-1404	Construction Shop Unit MDU-B-1403	0.25 MMBtu/hr	1994*

***Warehouse***

WF-6010	L26-M-6010 Baghouse	L26-F-6010	Warehouse - West Silo	750 ft <sup>3</sup> 236 ft <sup>2</sup> Dust Collector	1959/2015*
D56	None	MS11717	Warehouse Railcar Unloading System	NA	1976
4P-1010	L31-M-1010 Bin Vent	L31-F-1010	Box & Bag 4	1,500 ft <sup>3</sup> Silo 85 ft <sup>2</sup> Bin Vent	1986*
4P-1060	L31-M-1060 Baghouse	L37-P-1060	Box & Bag 4 Fines Elutriator	396 ft <sup>2</sup> Dust Collector	1996*
7P-0607	L36-M-6060 Bin Vent	L36-F-6040	Box/Bag7	1,500 ft <sup>3</sup> Surge Bin 85 ft <sup>2</sup> Bin Vent	1988*
10P-1050	L3A-M-1050 Bin Vent	L3A-F-1030	Box/Bag 10	1,200 ft <sup>3</sup> Silo 150 ft <sup>2</sup> Bin Vent	1994*
10P-1100	L3A-M-1070 Baghouse	P-1310	Box/Bag 10 Fines Elutriator	150 ft <sup>2</sup> Dust Collector	1994*
11P-1090	L3B-M-2060 Bin Vent	L3B-F-2040	Box/Bag 11	1,200 ft <sup>3</sup> Silo 85 ft <sup>2</sup> Bin Vent	1994*
11P-1080	L3B-M-2080 Baghouse	P-2350	Box/Bag 11 Fines Elutriator	150 ft <sup>2</sup> Dust Collector	1994*
7EC-15	L21-M-1050 Bin Vent	L21-F-1020	Off-Spec Silo A	4,000 ft <sup>3</sup> Silo 315 ft <sup>2</sup> Bin Vent	1988*
7P-1510	L22-M-2120 Bin Vent	L22-F-2040	Off-Spec Silo B	4,000 ft <sup>3</sup> Silo 315 ft <sup>2</sup> Bin Vent	1987*

***Generators***

P-66	None	UTF-G-1020A	#1 Diesel Fire Pump	235 HP	1959*
U3F-G-1710	None	U3F-G-1710	#2 Diesel Fire Pump	235 HP	1976*

Emission Point ID	Control Device	Emission Unit ID	Emission Unit Description	Design Capacity	Year Installed
DGM-U-1010	None	DGM-U-1010	Emergency Electric Generator	250 HP	2005

**\* A change(s) was made to this line entry during Class II Administrative Update R13-1650S.**



## 2.0. General Conditions

### 2.1. Definitions

- 2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45 CSR § 30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.

### 2.2. Acronyms

<b>CAAA</b>	Clean Air Act Amendments	<b>NO<sub>x</sub></b>	Nitrogen Oxides
<b>CBI</b>	Confidential Business Information	<b>NSPS</b>	New Source Performance Standards
<b>CEM</b>	Continuous Emission Monitor	<b>PM</b>	Particulate Matter
<b>CES</b>	Certified Emission Statement	<b>PM<sub>2.5</sub></b>	Particulate Matter less than 2.5µm in diameter
<b>C.F.R. or CFR</b>	Code of Federal Regulations	<b>PM<sub>10</sub></b>	Particulate Matter less than 10µm in diameter
<b>CO</b>	Carbon Monoxide	<b>Ppb</b>	Pounds per Batch
<b>C.S.R. or CSR</b>	Codes of State Rules	<b>pph</b>	Pounds per Hour
<b>DAQ</b>	Division of Air Quality	<b>ppm</b>	Parts per Million
<b>DEP</b>	Department of Environmental Protection	<b>Ppmv or ppmv</b>	Parts per million by volume
<b>dscm</b>	Dry Standard Cubic Meter	<b>PSD</b>	Prevention of Significant Deterioration
<b>FOIA</b>	Freedom of Information Act	<b>psi</b>	Pounds per Square Inch
<b>HAP</b>	Hazardous Air Pollutant	<b>SIC</b>	Standard Industrial Classification
<b>HON</b>	Hazardous Organic NESHAP	<b>SIP</b>	State Implementation Plan
<b>HP</b>	Horsepower	<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>lbs/hr</b>	Pounds per Hour	<b>TAP</b>	Toxic Air Pollutant
<b>LDAR</b>	Leak Detection and Repair	<b>TPY</b>	Tons per Year
<b>M</b>	Thousand	<b>TRS</b>	Total Reduced Sulfur
<b>MACT</b>	Maximum Achievable Control Technology	<b>TSP</b>	Total Suspended Particulate
<b>MDHI</b>	Maximum Design Heat Input	<b>USEPA</b>	United States Environmental Protection Agency
<b>MM</b>	Million	<b>UTM</b>	Universal Transverse Mercator
<b>MMBtu/hr or mmbtu/hr</b>	Million British Thermal Units per Hour	<b>VEE</b>	Visual Emissions Evaluation
<b>MMCF/hr or mmcf/hr</b>	Million Cubic Feet per Hour	<b>VOC</b>	Volatile Organic Compounds
<b>NA</b>	Not Applicable	<b>VOL</b>	Volatile Organic Liquids
<b>NAAQS</b>	National Ambient Air Quality Standards		
<b>NESHAPS</b>	National Emissions Standards for Hazardous Air Pollutants		

### **2.3. Authority**

This permit is issued in accordance with West Virginia Air Pollution Control Law W.Va. Code §§22-5-1 et seq. and the following Legislative Rules promulgated thereunder:

- 2.3.1. 45CSR13 – *Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation;*

### **2.4. Term and Renewal**

- 2.4.1. This permit supercedes and replaces previously issued Permit R13-1650R. This permit shall remain valid, continuous and in effect unless it is revised, suspended, revoked or otherwise changed under an applicable provision of 45CSR13 or any applicable legislative rule.

### **2.5. Duty to Comply**

- 2.5.1. The permitted facility shall be constructed and operated in accordance with the plans and specifications filed in Permit Applications R13-1650S, R13-1650R, R13-1650Q, R13-1650P, R13-1650O, R13-1650N, R13-1650M, R13-1650L, R13-1650K, R13-1650J, R13-1650I, R13-1650H, R13-1650G, R13-1650F, R13-1650E, R13-1650D, R13-1650C, R13-1650B, R13-1650A and R13-1650, and any modifications, administrative updates, or amendments thereto. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to;  
[45CSR§§13-5.11 and 13-10.3]
- 2.5.2. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA;
- 2.5.3. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7;
- 2.5.4. Approval of this permit does not relieve the permittee herein of the responsibility to apply for and obtain all other permits, licenses and/or approvals from other agencies; i.e., local, state and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.

### **2.6. Duty to Provide Information**

The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for administratively updating, modifying, revoking or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

**2.7. Duty to Supplement and Correct Information**

Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

**2.8. Administrative Update**

The permittee may request an administrative update to this permit as defined in and according to the procedures specified in 45CSR13.  
[45CSR§13-4]

**2.9. Permit Modification**

The permittee may request a minor modification to this permit as defined in and according to the procedures specified in 45CSR13.  
[45CSR§13-5.4.]

**2.10. Major Permit Modification**

The permittee may request a major modification to this permit as defined in and according to the procedures specified in 45CSR14 or 45CSR19, as appropriate.  
[45CSR§14-7 or 45CSR§19-14]

**2.11. Inspection and Entry**

The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:

- a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
- d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

**2.12. Emergency**

- 2.12.1. An "emergency" means any situation arising from sudden and reasonable unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

- 2.12.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of Section 2.12.3 are not met.
- 2.12.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
  - b. The permitted facility was at the time being properly operated;
  - c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and,
  - d. The permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice must contain a detailed description of the emergency, any steps taken to mitigate emission, and corrective actions taken.
- 2.12.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- 2.12.5. The provisions of this section are in addition to any emergency or upset provision contained in any applicable requirement.

### **2.13. Need to Halt or Reduce Activity Not a Defense**

It shall not be a defense for a permittee in an enforcement action that it should have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

### **2.14. Suspension of Activities**

In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations authorized by this permit, the permittee shall notify the Secretary, in writing, within two (2) calendar weeks of the passing of the sixtieth (60) day of the suspension period.

### **2.15. Property Rights**

This permit does not convey any property rights of any sort or any exclusive privilege.

### **2.16. Severability**

The provisions of this permit are severable and should any provision(s) be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.

**2.17. Transferability**

This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13.  
[45CSR§13-10.1]

**2.18. Notification Requirements**

The permittee shall notify the Secretary, in writing, no later than thirty (30) calendar days after the actual startup of the operations authorized under this permit.

**2.19. Credible Evidence**

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defense otherwise available to the permittee including, but not limited to, any challenge to the credible evidence rule in the context of any future proceeding.

### 3.0. Facility-Wide Requirements

#### 3.1. Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person, firm, corporation, association or public agency is prohibited except as noted in 45CSR§6-3.1.  
[45CSR§6-3.1.]
- 3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.  
[45CSR§6-3.2.]
- 3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them.  
[40CFR§61.145(b) and 45CSR§34]
- 3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.  
[45CSR§4-3.1 State-Enforceable only.]
- 3.1.5. **Permanent shutdown.** A source which has not operated at least 500 hours in one 12-month period within the previous five (5) year time period may be considered permanently shutdown, unless such source can provide to the Secretary, with reasonable specificity, information to the contrary. All permits may be modified or revoked and/or reapplication or application for new permits may be required for any source determined to be permanently shutdown.  
[45CSR§13-10.5.]
- 3.1.6. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45 C.S.R. 11.  
[45CSR§11-5.2.]

#### 3.2. Monitoring Requirements

[Reserved]

#### 3.3. Testing Requirements

- 3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally

accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63 in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4 or 45CSR§13-5.4 as applicable.
- b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4 or 45CSR§13-5.4 as applicable.
- c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.
- d. The permittee shall submit a report of the results of the stack test within sixty (60) days of completion of the test. The test report shall provide the information necessary to document the objectives of the test and to determine whether proper procedures were used to accomplish these objectives. The report shall include the following: the certification described in paragraph 3.5.1.; a statement of compliance status, also signed by a responsible official; and, a summary of conditions which form the basis for the compliance status evaluation. The summary of conditions shall include the following:
  1. The permit or rule evaluated, with the citation number and language;
  2. The result of the test for each permit or rule condition; and,
  3. A statement of compliance or noncompliance with each permit or rule condition.

[WV Code § 22-5-4(a)(14-15) and 45CSR13]

### 3.4. Recordkeeping Requirements

- 3.4.1. **Retention of records.** The permittee shall maintain records of all information (including monitoring data, support information, reports and notifications) required by this permit recorded in a form suitable and readily available for expeditious inspection and review. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation. The files shall be maintained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two (2) years of data shall be maintained on site. The remaining three (3) years of data may be

maintained off site, but must remain accessible within a reasonable time. Where appropriate, the permittee may maintain records electronically (on a computer, on computer floppy disks, CDs, DVDs, or magnetic tape disks), on microfilm, or on microfiche.

- 3.4.2. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.

[45CSR§4. *State-Enforceable only.*]

### 3.5. Reporting Requirements

- 3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
- 3.5.2. **Confidential information.** A permittee may request confidential treatment for the submission of reporting required by this permit pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.
- 3.5.3. **Correspondence.** All notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, or mailed first class with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

**If to the DAQ:**

Director  
WVDEP  
Division of Air Quality  
601 57th Street, SE  
Charleston, WV 25304-2345

**If to the USEPA:**

Associate Director  
Office of Air Enforcement and Compliance  
Assistance  
(3AP20)  
U. S. Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

3.5.4. **Operating Fee.**

- 3.5.4.1. In accordance with 45CSR30 – Operating Permit Program, the permittee shall submit a Certified Emissions Statement (CES) and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.
- 3.5.5. **Emission inventory.** At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous year, addressing the emissions from the facility and/or process(es) authorized herein, in accordance with the emission inventory submittal requirements of the Division of Air Quality. After the initial submittal, the Secretary may, based upon the type and quantity of the pollutants emitted, establish a frequency other than on an annual basis.



#### 4.0. Source-Specific Requirements

##### 4.1. Limitations and Standards

- 4.1.1. The facility shall be limited to the maximum production rates for each of the associated operating units as shown in the following table:

**Table 4.1.1.**

Unit	Production Rate	
	Hourly <sup>1</sup> (pounds/hour)	Annual (tons/year)
CP-3	70,000	306,600
CP-4	40,000	157,680
CSS-7	No Longer in Service.	
CSS-8	18,000	78,840
CSS-9	42,000	183,960
CSS-10	18,000	78,840
CSS-11	18,000	78,840
CSS-12	25,000	109,500
CSS-13	25,000	109,500

1 - Hourly production limits are based on a maximum daily averaged rate.

- 4.1.2. The Hot Oil Heater [C2T-B-9001] shall be operated in accordance to the following limits and requirements:
- The heater shall be limited to a maximum designed heat input rate of  $24.0 \times 10^6$  Btu/hour.
  - Fuel consumption shall be limited to natural gas at a maximum rate of 55,312 ft<sup>3</sup>/hour and  $278 \times 10^6$  ft<sup>3</sup>/year.
  - The heater shall be designed and operated so to provide a minimum destruction efficiency of 99.8% for VOC's from sources vented to emission point 2P-9001, as established in Section 1.0 - Emission Units, of this permit.
  - Visible emissions from Emission Point 2P-9001 shall not exceed a maximum of 10% opacity on a 6-minute averaging period except as authorized per 45CSR2, Section 3.1.
- 4.1.3. The Hot Oil Heater [C3T-B-1600] shall be operated in accordance to the following limits and requirements:
- The heater shall be limited to a maximum designed heat input rate of  $53.1 \times 10^6$  Btu/hour.
  - Fuel consumption shall be limited to natural gas at a maximum rate of 55,312 ft<sup>3</sup>/hour and  $411 \times 10^6$  ft<sup>3</sup>/year.

- c. The heater shall be designed and operated so to provide a minimum destruction efficiency of 99.8% for VOC's from sources vented to emission point 3P-1600, as established in Section 1.0 - Emission Units, of this permit.
    - d. Visible emissions from Emission Point 3P-1600 shall not exceed a maximum of 10% opacity on a 6-minute averaging period except as authorized per 45CSR2, Section 3.1.
  - 4.1.4. The Hot Oil Heater [C4T-B-1600] shall be operated in accordance to the following limits and requirements:
    - a. The heater shall be limited to a maximum designed heat input rate of  $53.1 \times 10^6$  Btu/hour.
    - b. Fuel consumption shall be limited to natural gas at a maximum rate of 55,312 ft<sup>3</sup>/hour and  $411 \times 10^6$  ft<sup>3</sup>/year.
    - c. The heater shall be designed and operated so to provide a minimum destruction efficiency of 99.8% for VOC's from sources vented to emission point 4P-1600, as established in Section 1.0 - Emission Units, of this permit.
    - d. Visible emissions from Emission Point 4P-1600 shall not exceed a maximum of 10% opacity on a 6-minute averaging period except as authorized per 45CSR2, Section 3.1.
  - 4.1.5. The Hot Oil Heater [C3T-F-1700] shall be operated in accordance to the following limits and requirements:
    - a. The heater shall be limited to a maximum designed heat input rate of  $23.0 \times 10^6$  Btu/hour.
    - b. Fuel consumption shall be limited to natural gas at a maximum rate of 24,000 ft<sup>3</sup>/hour and  $210 \times 10^6$  ft<sup>3</sup>/year.
    - c. Visible emissions from Emission Point 3P-1700 shall not exceed a maximum of 10% opacity on a 6-minute averaging period except as authorized per 45CSR2, Section 3.1.
  - 4.1.6. **Periodic Tune-ups under 40 C.F.R. 63 Subpart DDDDD.** The permittee shall conduct a tune-up every five (5) years on the Hot Oil Heater [C3T-F-1700] as specified in §63.7540.
    - (i) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown). At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;
    - (ii) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
    - (iii) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown).
    - (iv) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO<sub>x</sub> requirement to which the unit is subject;

- (v) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and
- (vi) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (vi)(A) and (B) of this condition.
  - (A) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;
  - (B) A description of any corrective actions taken as a part of the tune-up.
- Each 5-year tune-up specified in §63.7540(a)(12) must be conducted no more than 61 months after the previous tune-up.
- If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup.

**[40 C.F.R. §§ 63.7500(a), Table 3 – Work Practice Standards, Item #1; 40 C.F.R. §§ 63.7540(a)(12), 63.7540(a)(10)(i) through (vi), 63.7515(d), 63.7540(a)(13), 63.7515(g), 63.7505(a); 45CSR34]**

4.1.7. *[Reserved]*

4.1.8. *[Reserved]*

4.1.9. The Small Boiler [UGS-B-2010] and Space Heaters [U3S-B-1633 and -1100; U3S-G-1631 and -1632; U2S-B-1071 and -1072; U4S-B-1010; MDU-B-1851 thru -1853; MDU-B-1000 thru -1027; MDU-B-1081 thru -1083; MDU-B-1401 thru -1404] shall be operated in accordance to the following limits and requirements:

- a. The boilers and heaters shall be limited to the maximum designed heat input rates defined in the Emission Units Table in Section 1.1 of this permit.
- b. Fuel consumption shall be limited to natural gas. **[45CSR13-15.1.c and 45CSR34-3.2 for UGS-B-2010 ]**
- c. Visible emissions from Emission Points U-B-2010; U-B-1633, -1100, -1631 and -1632; U-B-1071 and -1072; U-B-1010; U-B-1851, -1852 and -1853; U-B-1000 thru -1027; U-B-1081 thru -1083; and U-B-1401 thru -1404 shall not exceed a maximum of 10% opacity on a 6-minute averaging period except as authorized per 45CSR2, Section 3.1.

4.1.10. Visible emissions from emission points servicing sources subject to 45CSR7 and emitting particulate matter shall not exceed 20% opacity.

4.1.11. Emissions released from sources affected by this permit shall be limited to emission points, pollutants, and associated emission rates as established by Tables A through L located in the Appendix of this permit.

4.1.12. The permitted facility shall comply with all applicable requirements of 45CSR2, with the exception of any more stringent limitations set forth in Specific Requirements A of this permit. The principle

provisions of 45CSR2, applicable to the permitted facility, are:

§45-2-3.1

No person shall cause, suffer, allow or permit emissions of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six minute block average.

§45-2-3.2

Compliance with the visible emission requirements of subsection 3.1 shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 or by using measurements from continuous opacity monitoring systems approved by the Director. The Director may require the installation, calibration, maintenance and operation of continuous opacity monitoring systems and may establish policies for the evaluation of continuous opacity monitoring results and the determination of compliance with the visible emission requirements of subsection 3.1. Continuous opacity monitors shall not be required on fuel burning units which employ wet scrubber systems for emission control.

§45-2-4.1.

No person shall cause, suffer, allow or permit the discharge of particulate matter into the open air from all fuel burning units located at one plant, measured in terms of pounds per hour in excess of the amount determined in 45CSR2-4.1.b.

§45-2-4.1.b.

For Type 'b' fuel burning units, the product of 0.09 and the total design heat inputs for such units in million BTU's per hour, provided however that no more than six hundred (600) pounds per hour of particulate matter shall be discharged into the open air from all such units.

4.1.13. The pertinent sections of 45CSR7 applicable to this facility include the following:

§45-7-3.1

No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7.

§45-7-3.7

No person shall cause, suffer, allow or permit visible emissions from any storage structure(s) associated with any manufacturing process(es) that pursuant to subsection 5.1 is required to have a full enclosure and be equipped with a particulate matter control device.

§45-7-4.1

No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A found at the end of this rule.

§45-7-5.1

No person shall cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable.

§45-7-5.2

The owner or operator of a plant shall maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmosphere entrainment.

§45-7-8.1

At such reasonable times as the Director may designate, the operator of any manufacturing process source operation may be required to conduct or have conducted stack tests to determine the particulate matter loading in exhaust gases. Such tests shall be conducted in such manner as the Director may specify and be filed on forms and in a manner acceptable to the Director. The Director, or his duly authorized representative, may at his option witness or conduct such stack tests. Should the Director exercise his option to conduct such tests, the operator will provide all the necessary sampling connections and sampling ports to be located in such manner as the Director may require, power for test equipment and the required safety equipment such as scaffolding, railings and ladders to comply with generally accepted good safety practices.

§45-7-8.2

The Director, or his duly authorized representative, may conduct such other tests as he or she may deem necessary to evaluate air pollution emissions.

§45-7-9

Due to unavoidable malfunction of equipment, emissions exceeding those set forth in this rule may be permitted by the Director for periods not to exceed ten (10) days upon specific application to the Director. Such application shall be made within twenty-four (24) hours of the malfunction. In cases of major equipment failure, additional time periods may be granted by the Director provided a corrective program has been submitted by the owner or operator and approved by the Director.

[45CSR§7]

- 4.1.14. The permitted facility shall comply with all applicable requirements of 45CSR10, with the exception of any more stringent limitations set forth in Specific Requirements A. of this permit. The principle provisions of 45CSR10, applicable to the permitted facility, are:

§45-10-3.3.

No person shall cause, suffer, allow, or permit the discharge of sulfur dioxide into the open air from all stacks located at one plant, measured in terms of pounds per hour, in excess of the amount determined per 45CSR10.3.3.f.

§45-10-3.3.f.

For Type 'b' and Type 'c' fuel burning units, the product of 3.2 and the total design heat inputs for such units discharging through those stacks in million BTU's per hour.

[45CSR§10]

- 4.1.15. The permitted facility shall comply with the following applicable requirements of 40CFR63, Subpart JJJ - *National Emissions Standards for Hazardous Air Pollutants Group IV Polymers and Resins*, with the exception of any more stringent limitations set forth in Section 4.1. of this permit.

§63.1310(a)(2)

An existing affected source is defined as each group of one or more thermoplastic product process units (TPPU) and associated equipment, as listed in paragraph (a)(4) of this section that is not part of a new affected source, as defined in paragraph (a)(3) of this section, that is manufacturing the same primary product, and that is located at a plant site that is a major source.

§63.1310(a)(4)

Emission points and equipment. The affected source also includes the emission points and equipment specified in paragraphs (a)(4)(i) through (a)(4)(vi) of this section that are associated with each applicable group of one or more TPPU constituting an affected source.

§63.1310(a)(4)(i)

Each waste management unit.

§63.1310(a)(4)(ii)

Maintenance wastewater.

§63.1310(a)(4)(iii)

Each heat exchanger system.

§63.1310(a)(4)(v)

Each process contact cooling tower used in the manufacture of PET using a continuous terephthalic acid high viscosity multiple end finisher process that is associated with an existing affected source.

§63.1310(a)(4)(vi)

Equipment required by, or utilized as a method of compliance with, this subpart which may include control devices and recovery devices.

§63.1314(a)

This section applies to each storage vessel that is assigned to an affected source, as determined by Section 63.1310(g). Except as provided in paragraphs (b) through (d) of this section, the owner or operator of an affected source shall comply with the requirements of Section 63.119 through 63.123 and 63.148 for those storage vessels, with the differences noted in paragraphs (a)(1) through (a)(17) of this section for the purposes of this subpart.

§63.1316(a)

The owner or operator of an affected source producing PET using a continuous process shall comply with paragraph (b) of this section. As specified in paragraph (b) of this section, owners or operators shall comply with Section 63.1315 for certain continuous process vents and with Section 63.1321 for all batch process vents.

§63.1316(b)

The owner or operator of an affected source producing PET using a continuous process shall comply with the requirements specified in paragraph (b)(2) of this section, and not required to comply with the requirements specified in 40 CFR Part 60, Subpart DDD.

§63.1316(b)(2)

The owner or operator of an affected source producing PET using a continuous terephthalic acid process shall comply with paragraphs (b)(2)(i) through (b)(2)(iv) of this section.

§63.1316(b)(2)(i)

Limit organic HAP emissions from continuous process vents in the collection of raw material preparation sections within the affected source by complying with either paragraph (b)(2)(i)(A) or (b)(2)(i)(B) of this section.

§63.1316(b)(2)(i)(A)

Organic HAP emissions from all continuous process vents associated with the esterification vessels in each individual raw materials preparation section shall, as a

whole, be no greater than 0.04 kg organic HAP per Mg of product from the associated TPPU(s); or alternatively, organic HAP emissions from all continuous process vents associated with the esterification vessels in the collection of raw material preparation sections within the affected source shall, as a whole, be no greater than 0.04 kg organic HAP per Mg of product from all associated TPPU(s). Other continuous process vents (i.e., those not associated with the esterification vessels) in the collection of raw materials preparation sections within the affected source shall comply with Section 63.1315; or

§63.1316(b)(2)(i)(B)

Comply with paragraph (b)(2)(v) of this section.

§63.1316(b)(2)(ii)

Limit organic HAP emissions from continuous process vents in the collection of polymerization reaction sections within the affected source by complying with either paragraph (b)(2)(ii)(A) or (b)(2)(ii)(B) of this section.

§63.1316(b)(2)(ii)(A)

Organic HAP emissions from all continuous process vents in each individual polymerization reaction section (including emissions from any equipment used to further recover ethylene glycol, but excluding emissions from process contact cooling towers) shall, as a whole, be no greater than 0.02 kg organic HAP per Mg of product from the associated TPPU(s); or alternatively, organic HAP emissions from all continuous process vents in the collection of polymerization reaction sections within the affected source shall, as a whole, be no greater than 0.02 kg organic HAP per Mg of product from all associated TPPU(s); or

§63.1316(b)(2)(ii)(B)

Comply with paragraph (b)(2)(v) of this section.

§63.1316(b)(2)(iii)

Continuous process vents not included in a raw materials preparation section, as specified in paragraphs (b)(2)(i) of this section, and not included in a polymerization reaction section, as specified in paragraph (b)(2)(ii) of this section, shall comply with Section 63.1315.

§63.1316(b)(2)(v)

Comply with one of the following:

§63.1316(b)(2)(v)(A)

Reduce the emissions in a combustion device to achieve 98 weight percent reduction or to achieve a concentration of 20 parts per million by volume (ppmv) on a dry basis, whichever is less stringent. If an owner or operator elects to comply with the 20 ppmv standard, the concentration shall include a correction to 3 percent oxygen only when supplemental combustion air is used to combust the emissions;

§63.1316(b)(2)(v)(B)

Combust the emissions in a boiler or process heater with a design heat input capacity of 150 million Btu/hr or greater by introducing the emissions into the flame zone of the boiler or process heater; or

§63.1316(b)(2)(v)(C)

Combust the emissions in a flare that complies with the requirements of Section 63.1333.

§63.1330(b) - Wastewater Provisions

The owner or operator of each affected source shall comply with the requirements of Section 63.132 through 63.149, with the differences noted in paragraphs (b)(1) through (b)(22) of this section for the purposes of this subpart.

§63.1331(a) - Equipment Leak Detection

Except as provided for in paragraphs (b) and (c) of this section, the owner or operator of each affected source shall comply with the requirements of Subpart H of this part, with the differences noted in paragraphs (a)(1) through (a)(13) of this section.

- 4.1.16. The permitted facility shall comply with the requirements of 40 CFR 60, Subpart K<sub>b</sub> - "Standards of Performance for Volatile Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1994," provided that the facility shall comply with any more stringent requirements as may be set forth under Section 4.0 of this permit.
- 4.1.17. The permittee shall comply with all applicable requirements of 40 C.F.R. 63, Subpart FFFF – National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing".
- 4.1.18. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.
- 4.1.19. The permittee shall comply with the following requirements of 40 C.F.R. 63, Subpart ZZZZ – "National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines" for the Emergency Electric Generator DGM-U-1010 (diesel-fueled) by no later than May 3, 2013.

[45CSR§13-5.11.]

[45CSR34; 40 C.F.R. §63.6595(a)(1)]

- (a) If you own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in 40 C.F.R. 63, Subpart ZZZZ - Table 2c. For an emergency stationary CI RICE, the following apply:

For each...	You must meet the following requirement, except during periods of startup...	During periods of startup you must...
Emergency stationary CI RICE and black start stationary CI RICE <sup>1</sup>	a. Change oil and filter every 500 hours of operation or annually, whichever comes first. <sup>2</sup>	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. <sup>3</sup>
	b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary;	
	c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. <sup>3</sup>	



- <sup>1</sup> If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in the above table (Subpart ZZZZ - Table 2c), or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under Federal, state, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local laws has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, state, or local law has abated. Sources must report any failure to perform the work practice on the schedule required and the Federal, State, or local law under which the risk was deemed unacceptable.
- <sup>2</sup> Sources have the option to utilize an oil analysis program as described below in Section 4.1.19(g) of this permit [40 C.F.R. §63.6625(i)] in order to extend the specified oil change requirement in the above table (Subpart ZZZZ - Table 2c).
- <sup>3</sup> Sources can petition the Administrator pursuant to the requirements of 40 C.F.R. §63.6(g) for alternative work practices.

**[45CSR34; 40 C.F.R. §63.66602]**

- (b) You must be in compliance with the emission limitations and operating limitations in 40 C.F.R. 63, Subpart ZZZZ that apply to you at all times. **[45CSR34; 40 C.F.R. §63.6605(a)]**
- (c) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.  
**[45CSR34; 40 C.F.R. §63.6605(b)]**
- (d) For an existing emergency or black start stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.  
**[45CSR34; 40 C.F.R. §63.6625(e)(2)]**
- (e) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed. **[45CSR34; 40 C.F.R. §63.6625(f)]**
- (f) If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in 4.1.19(a) apply.  
**[45CSR34; 40 C.F.R. §63.6625(h)]**
- (g) You have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in 4.1.19(a). The oil analysis must be performed at the same frequency

specified for changing the oil in 4.1.19(a). The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5 percent. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [45CSR34; 40 C.F.R. §63.6625(i)]

- (h) For an existing emergency and black start stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions, you must demonstrate continuous compliance with each operating limitation in 4.1.19(a) according to the methods specified below (Subpart ZZZZ - Table 6):

For each...	Comply with the requirement to...	You must demonstrate continuous compliance by...
Existing emergency and black start stationary RICE ≤ 500 HP located at a major source of HAP...	a. Work or Management practices	i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or
		ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[45CSR34; 40 C.F.R. §63.6640(a)]

- (i) You must report each instance in which you did not meet each operating limitation in 4.1.19(a). These instances are deviations from the operating limitations in 40 C.F.R. 63, Subpart ZZZZ. These deviations must be reported according to the requirements in 40 C.F.R. §63.6650 (entitled: What reports must I submit and when?). [45CSR34; 40 C.F.R. §63.6640(b)]
- (j) You must also report each instance in which you did not meet the requirements in 40 C.F.R. 63, Subpart ZZZZ - Table 8 (entitled: Applicability of General Provisions to Subpart ZZZZ) that apply to you. [45CSR34; 40 C.F.R. §63.6640(e)]
- (k) *Requirements for emergency stationary RICE operation.* If you own or operate an emergency RICE, you must operate the emergency stationary RICE according to the requirements in paragraphs 4.1.19(k)(1) through (3) of this section. In order for the engine to be considered an emergency stationary RICE under this section, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs 4.1.19(k)(1) through (3) of this section is prohibited. If you do not operate the engine according to the requirements in paragraphs 4.1.19(k)(1) through (3) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

- (1) There is no time limit on the use of emergency stationary RICE in emergency situations.

- (2) You may operate your emergency stationary RICE for any combination of the purposes specified below in paragraphs 4.1.19(k)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs 4.1.19(k)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph 4.1.19(k)(2).
  - (i) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.
  - (ii) Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-03.
  - (iii) Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
- (3) Emergency stationary RICE located at major sources of HAP may be operated for up to 50 hours per year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph 4.1.19(k)(2) of this section. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

**[45CSR34; 40 C.F.R. §§63.6640(f)(1) through (3)]**

- (1) Beginning January 1, 2015, if you own or operate an existing emergency CI stationary RICE with a site rating of more than 100 brake HP and a displacement of less than 30 liters per cylinder that uses diesel fuel or operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in Section 4.1.19 (k)(2)(ii) and (iii) of this permit, you must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted. **[45CSR34; 40 C.F.R. §63.6604(b)]**

## **4.2. Monitoring Requirements**

- 4.2.1. For the purpose of determining compliance with the production limits set forth in Section 4.1.1. of this permit, the permitted facility shall monitor the hourly and total annual production rates for each of the process units identified in Table 4.1.1. of this permit.

- 4.2.2. For the purpose of determining compliance with the operating limits set forth in Section 4.1.2., 4.1.3., 4.1.4., 4.1.5., and 4.1.9 of this permit, the permitted facility shall monitor the hourly and annual fuel consumption rates associated with the routine operation of the Hot Oil Heaters [C2T-B-9001, C3T-B-1600, C4T-B-1600, and C3T-F-1700], the Small Boiler [UGS-B-2010], and the Space Heaters [U3S-B-1633 and -1100; U3S-G-1631 and -1632; U2S-B-1071 and -1072; U4S-B-1010; MDU-B-1851 thru -1853; MDU-B-1000 thru -1027; MDU-B-1081 thru -1083; MDU-B-1401 thru -1404] **[45CSR13-15.1.c and 45CSR34-3.2 for UGS-B-2010 ]**
- 4.2.3. For the purpose of determining compliance with the particulate emission limits set forth in Section 4.1.10. and 4.1.11. of this permit, the permitted facility shall monitor the pressure differential across each of the dust collectors identified in Section 1.0 of this permit during periods of routine operation.
- 4.2.4. Continuous process vents using a control or recovery device to comply with 4.1.15. shall comply with all applicable monitoring provisions specified for continuous process vents in 40 C.F.R. §63.114 except for the differences noted in 40 C.F.R. §63.1315(a). The pertinent sections of 40 C.F.R. §63.114 applicable to continuous process vents include, but are not limited to, the following:
- 4.2.4.1. For any bypass line between the origin of the gas stream and the point where the gas stream reaches the process vent that could divert the gas stream directly to the atmosphere, the owner or operator of a process vent shall properly install, maintain, and operate a flow indicator that takes a reading at least once every 15 minutes. Records shall be generated as specified in 40 C.F.R. §63.118(a)(3). The flow indicator shall be installed at the entrance to any bypass line that could divert the gas stream to the atmosphere. **[40 C.F.R. §§63.1317, 63.1315(a), 63.114(d) and (d)(1)]**
- 4.2.5. To demonstrate compliance with the wastewater provisions of 4.1.15, the permittee shall monitor the effluent parameters in accordance to their NPDES permit (Permit No. WV0000132). **[40 C.F.R. §63.143(c) and 63.146(a)]**

#### **4.3. Testing Requirements**

- 4.3.1. The permittee shall comply with the requirements of 40 C.F.R. 63, Subpart H for equipment leaks, with the differences noted in 40 C.F.R. §§63.1331(a)(1) through (a)(13). The pertinent equipment leak testing provisions include, but are not limited to 40 C.F.R. §63.180 (Test methods and procedures.). **[40 C.F.R. §§63.1331(a) and 63.180]**
- 4.3.2. *[Reserved]*
- 4.3.3. *[Reserved]*
- 4.3.4. *[Reserved]*

#### **4.4. Recordkeeping Requirements**

- 4.4.1. **Record of Monitoring.** The permittee shall keep records of monitoring information that include the following:
- a. The date, place as defined in this permit and time of sampling or measurements;
  - b. The date(s) analyses were performed;
  - c. The company or entity that performed the analyses;
  - d. The analytical techniques or methods used;

- e. The results of the analyses; and
- f. The operating conditions existing at the time of sampling or measurement.

4.4.2. **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 1.0, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.

4.4.3. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:

- a. The equipment involved.
- b. Steps taken to minimize emissions during the event.
- c. The duration of the event.
- d. The estimated increase in emissions during the event.

For each such case associated with an equipment malfunction, the additional information shall also be recorded:

- e. The cause of the malfunction.
- f. Steps taken to correct the malfunction.
- g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.

4.4.4. For the purpose of demonstrating compliance with the monitoring requirements set forth in Section 4.2.1. of this permit, the permittee shall maintain monthly records of the production rates for each of the units identified in Table 4.1.1. of this permit.

4.4.5. For the purpose of demonstrating compliance with the monitoring requirements set forth in Section 4.2.2. of this permit, the permittee shall maintain monthly records of the fuel consumption rates for each of the Hot Oil Heaters [C2T-B-9001, C3T-B-1600, C4T-B-1600, and C3T-F-1700] the Small Boiler [UGS-B-2010], and the Space Heaters [U3S-B-1633 and -1100; U3S-G-1631 and -1632; U2S-B-1071 and -1072; U4S-B-1010; MDU-B-1851 thru -1853; MDU-B-1000 thru -1027; MDU-B-1081 thru -1083; MDU-B-1401 thru -1404]. These records shall include, but not limited to, the fuel type(s) and the associated daily average hourly and annual consumption rate during equipment start-up and routine operation. [45CSR13-15.1.c and 45CSR34-3.2 for UGS-B-2010 ]

4.4.6. For the purpose of demonstrating compliance with the monitoring requirements set forth in Section 4.2.3. of this permit, the permittee shall maintain monthly records of the pressure differential readings across the dust collector systems.

4.4.7. The permittee shall maintain records in accordance to the requirements set forth by 40 CFR 63, Subpart JJJ - *National Emissions Standards for Hazardous Air Pollutants Group IV Polymers and Resins*.

4.4.7.1. Continuous process vents using a control or recovery device to comply with Section 4.1.15. of this permit shall comply with all applicable record keeping provisions specified for continuous process vents in 40 CFR 63.117 and 63.118 except for the differences noted in 40 CFR 63.1315(a). The pertinent sections of 40 CFR 63.117 and 63.118 applicable to continuous process vents include, but are not limited to, the following:

- 4.4.7.1.1. The permittee shall keep up-to-date and readily accessible hourly records of whether the flow indicator specified under Section 4.2.4. of this permit was operating and whether a diversion was detected at any time during the hour, as well as records of the times and durations of all periods when the gas stream is diverted to the atmosphere or the monitor is not operating.
- 4.4.7.1.2. For a boiler or process heater, a description of the location at which the vent stream is introduced into the boiler or process heater shall be recorded. **[40 C.F.R. §§63.1319(a), 63.1315(a), 63.117(a)(4)(i), 63.117(a)(4)(iii), and 63.118(a)(3)]**
- 4.4.7.2. Owners or operators required to keep continuous records in accordance with 40 CFR 63, Subpart JJJ shall keep records as specified in 40 CFR 63.1335(d)(1) through (d)(7). **[40 C.F.R. §§63.1315(d), (d)(1) through (d)(7)]**
- 4.4.7.3. The owner or operator of an affected source shall comply with the applicable record keeping and reporting requirements in 40 CFR 63, Subpart A as specified in Table 1 of 40 CFR 63, Subpart JJJ. These requirements include, but are not limited to, the requirements specified in 40 CFR 63.1335(b)(1). **[40 C.F.R. §§63.1335(b) and (b)(1)]**
- 4.4.7.4. The permittee shall comply with the requirements of 40 CFR 63, Subpart H for equipment leaks, with the differences noted in 40 CFR 63.1331(a)(1) through (a)(13). The pertinent equipment leak record keeping provisions include, but are not limited to 40 CFR 63.181. (Record keeping requirements). **[40 C.F.R. §§63.1331(a) and 63.181]**
- 4.4.8. The permitted facility shall comply with the applicable record keeping requirements of 40 CFR 60, Subpart K<sub>b</sub> - "Standards of Performance for Volatile Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1994," provided that the facility shall comply with any more stringent requirements as may be set forth under Section 4.0 of this permit. The pertinent section which applies to this facility includes the following:

§63.116b - Monitoring of Operations

§63.116b(a)

The owner or operator shall keep copies of all records required by this section, except for the record required by paragraph (b) of this section, for at least 2 years. The record required by paragraph (b) of this section will be kept for the life of the source.

§63.116b(b)

The owner or operator of each storage vessel as specified in Sec. 60.110b(a) shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Each storage vessel with a design capacity less than 75 m<sup>3</sup> is subject to no provision of this subpart other than those required by this paragraph.

§63.116b(c)

Except as provided in paragraphs (f) and (g) of this section, the owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure greater than or equal to 3.5 kPa or with a design capacity greater than or equal to 75 m<sup>3</sup> but less than 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure greater than or equal to 15.0 kPa shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.

- 4.4.9. For the Emergency Electric Generator DGM-U-1010 (diesel-fueled), the permittee shall comply with the recordkeeping requirements of 40 C.F. R. 63, Subpart ZZZZ - "National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines," Sec. 63.6655 except 63.6655( c ).  
**[45CSR34; 40 C.F.R.§63.6655 except 63.6655 ( c )]**

#### **4.5. Reporting Requirements**

- 4.5.1. The permittee shall assemble and submit all applicable routine reports as set forth in the requirements of 40CFR63, Subpart JJJ - *National Emissions Standards for Hazardous Air Pollutants Group IV Polymers and Resins*.
- 4.5.1.1. In addition to the reports and notifications required by 40 CFR 63, Subpart A as specified in Table 1 of 40 CFR 63, Subpart JJJ, the owner or operator of an affected source shall prepare and submit periodic reports as specified in 40 CFR 63.1335(e)(6). All reports required by this subpart, and the schedule for their submittal, are listed in Table 9 of 40 CFR 63, Subpart JJJ. All reports shall be sent to the Administrator at the appropriate address listed in 40 CFR 63.13. If acceptable to both the Administrator and the owner or operator of an affected source, reports may be submitted on electronic media. **[40 C.F.R. §§63.1335(e), (e)(2), (e)(6)]**
- 4.5.1.2. The permittee shall submit as part of the next Periodic Report required by 40 CFR 63.1335(e)(6) the information specified in 40 CFR 63.146(d)(1) and (3) for process wastewater. **[40 C.F.R. §§63.146(d), (d)(1) and (d)(3)]**
- 4.5.1.3. The permittee shall comply with the requirements of 40 CFR 63, Subpart H for equipment leaks, with the differences noted in 40 CFR 63.1331(a)(1) through (a)(13). The pertinent equipment leak reporting provisions include, but are not limited to 40 CFR 63.182 (Reporting Requirements). **[40 C.F.R. §§63.1331(a) and 63.182]**
- 4.5.2. For the Emergency Electric Generator DGM-U-1010 (diesel-fueled), per footnote 1 of the table given in Section 4.1.19 (a) of this permit, the permittee must report any failure to perform the work practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable. **[45CSR 34; Footnote 1 of Table 2c of 40 C.F.R. 63, Subpart ZZZZ]**
- 4.5.3. For the Emergency Electric Generator DGM-U-1010 (diesel-fueled): If you own or operate an emergency stationary RICE with a site rating of more than 100 brake HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in Section 4.1.19(k)(2)(ii) and (iii) of this permit, you must submit an annual report according to the requirements in 40 C.F.R. 63.6500(h)(1) through (3). **[45CSR34; 40 C.F.R. §§63.6640(f)(2)(ii) and (iii)]**

## Appendix

**Table A - CP3 Maximum Permitted Emissions**

Emission Point ID	Control Device	Emission Unit ID	Emissions		
			Pollutants	Hourly (pounds/hour)	Annual (tons/year)
3P-3130	C3S-M-3120 Bin Vent	C3S-F-3080	Particulate Matter	0.13	0.19
3P-3190	None	C3L-F-3190	Total VOC	0.01	0.01
3P-1070	None	C3L-F-1070	Ethylene Glycol	0.01	0.02
			Total VOC	0.01	0.02
3P-1071	None	C3L-F-1071	Ethylene Glycol	0.01	0.02
			Total VOC	0.01	0.02
3P-1072	None	C3L-F-1072	Ethylene Glycol	0.01	0.02
			Total VOC	0.01	0.02
3P-1032	None	C3L-F-3180	Ethylene Glycol	0.23	0.23
		C3L-F-3140	Total VOC	0.52	0.52
		C3L-F-3150			
3P-2100	C3S-M-2100 Bin Vent	C3H-F-2010	Particulate Matter	<0.01	<0.01
3P-7020	C3L-F-7020 Seal Pot	C3L-F-6010	Ethylene Glycol	0.71	0.49
		C3L-F-7010			
		C3L-F-8010	Total VOC	0.71	0.49
		C3L-F-9010			
3P-8	None	UTG-F-3020	Ethylene Glycol	0.02	0.09
			Total VOC	0.02	0.09
3P-9	None	UTG-F-3010	Ethylene Glycol	0.02	0.09
			Total VOC	0.02	0.09



Emission Point ID	Control Device	Emission Unit ID	Emissions		
			Pollutants	Hourly (pounds/hour)	Annual (tons/year)
3P-1120	None	C3L-F-1120	Ethylene Glycol	0.01	0.02
			Total VOC	0.01	0.02
3P-1210	None	C38-E-1210	Ethylene Glycol	0.19	0.77
			Acetaldehyde	0.06	0.22
			Total VOC	0.37	1.48
3P-3210	None	C38-E-3210	Ethylene Glycol	0.19	0.77
			Acetaldehyde	0.06	0.22
			Total VOC	0.37	1.48
3P-5210	None	C38-E-5210	Ethylene Glycol	0.19	0.77
			Acetaldehyde	0.06	0.22
			Total VOC	0.37	1.48
3P-7210	None	C38-E-7210	Ethylene Glycol	0.19	0.77
			Acetaldehyde	0.06	0.22
			Total VOC	0.37	1.48
3P-0200	L4A-M-0200 Bin Vent	L4A-F-0200	Particulate Matter	0.35	0.01
3P-0650	None	C3T-F-0650	Ethylene Glycol	0.01	0.01
			Total VOC	0.01	0.01
3P-1730	None	C3U-F-1730	Total VOC	0.02	0.01
3P-1900	None	C3T-F-1900	Total VOC	0.01	0.01
3P-4620	None	C3T-F-4620	Total VOC	0.01	0.01
3P-5010	C3S-M-5010 Bin Vent	C3S-F-5010	Particulate Matter	0.04	0.18
3P-7260	None	C3T-F-7260	Total VOC	0.01	0.01

Emission Point ID	Control Device	Emission Unit ID	Emissions		
			Pollutants	Hourly (pounds/hour)	Annual (tons/year)
3P-1600	C3T-B-1600 Hot Oil Heater	C3L-F-2200	Ethylene Glycol	0.01	0.02
		C3L-F-2201			
		C3L-F-3160			
		C3L-F-4211			
		C3L-F-4100			
		C3L-F-4210			
		C3L-F-5040			
		C3H-F-1020			
		C3H-F-3010			
		C31-E-1020/ 1020A/1021	Acetaldehyde	1.04	1.50
		C32-E-1050/1051			
		C33-F-2250	1,4 - Dioxane	0.001	0.001
		C33-F-6010			
		C34-F-5020	Total VOC	1.32	2.77
		C31-F-1220			
		C33-F-2260	Particulate Matter	0.11	0.47
		C34-F-2290			
		C34-F-8290	Carbon Monoxide	1.86	8.14
		C3T-F-0600			
		C3H-F-4020	NOx	3.19	14.00
		C3T-F-2670			
		C3L-F-3170	SOx	0.05	0.23
		C3L-F-5990			
3P-1700	None	C3T-F-1700	Total VOC	0.12	0.50
			Particulate Matter	0.17	0.76
			Carbon Monoxide	1.89	8.26
			NOx	2.25	9.87
			SOx	0.01	0.06

## Appendix

**Table B - CP4 Maximum Permitted Emissions**

Emission Point ID	Control Device	Emission Unit ID	Emissions		
			Pollutants	Hourly (pounds/hour)	Annual (tons/year)
4P-1020	C4S-M-1040 Baghouse	C4S-F-1020	Particulate Matter	0.11	0.46
4P-2100	C4S-M-2100 Baghouse	C4S-F-2050	Particulate Matter	0.01	0.01
4P-3130	C4S-M-3130 Bin Vent	C4S-F-3080	Particulate Matter	0.11	0.23
4P-3190	None	C4L-F-3190	Total VOC	0.01	0.01
4P-1070	None	C4L-F-1070	Ethylene Glycol	0.03	0.10
			Total VOC	0.03	0.10
4P-1071	None	C4L-F-1071	Ethylene Glycol	0.03	0.10
			Total VOC	0.03	0.10
4P-1072	None	C4L-F-1072	Ethylene Glycol	0.03	0.10
			Total VOC	0.03	0.10
4P-1800	None	C4Y-F-1800	Ethylene Glycol	0.01	0.04
			Total VOC	0.01	0.04
4P-0430	None	C44-F-0430	Ethylene Glycol	< 0.01	< 0.01
			Total VOC	< 0.01	< 0.01
4P-1032	None	C4L-F-3140	Ethylene Glycol	0.09	0.42
		C4L-F-3180	Total VOC	0.09	0.42
4P-1900	None	C4R-F-1900	Ethylene Glycol	0.01	0.01
			Total VOC	0.01	0.01
4P-4620	None	C4T-F-4620	Total VOC	0.01	0.01
			Ethylene Glycol	0.07	0.29
4P-1210	None	C48-E-1210	Acetaldehyde	0.02	0.09
			Total VOC	0.13	0.57
4P-3210	None	C48-E-3210	Ethylene Glycol	0.07	0.29
			Acetaldehyde	0.02	0.09
4P-5210	None	C48-E-5210	Total VOC	0.13	0.57
			Ethylene Glycol	0.07	0.29
4P-4120	None	L24-M-4120	Acetaldehyde	0.02	0.09
			Total VOC	0.13	0.57
4P-1730	None	C4U-F-1710	Particulate Matter	0.01	0.02
			Total VOC	0.01	0.01

Emission Point ID	Control Device	Emission Unit ID	Emissions		
			Pollutants	Hourly (pounds/hour)	Annual (tons/year)
4P-4220	C4Q-M-4140 (glovebox) & C4Q-M-4220 HEPA Filter	C4Q-F-1290	Particulate Matter	0.006	0.03
4P-4180	C4Q-M-4190 HEPA Filter	C4Q-F-2290	Particulate Matter	0.006	0.03
4P-4160	C4Q-M-4160 HEPA Filter	C4Q-F-3290	Particulate Matter	0.006	0.03
4P-1600	C4T-B-1600 Hot Oil Heater	C4V-F-1010	Particulate Matter Carbon Monoxide NO <sub>x</sub> SO <sub>2</sub> Total VOC Ethylene Glycol Acetaldehyde 1,4 Dioxane	0.11 1.90 3.2 0.06 0.34 0.01 0.05 0.001	0.47 8.14 14.0 0.23 1.45 0.02 0.19 0.001
		C4L-F-3160			
		C4L-F-2120			
		C4L-F-3170			
		CP4-F-0510			
		C41-E-3020/3021			
		C42-E-2050/2060			
		C43-F-3250			
		C44-F-9280			
		C41-F-3220			
		C43-F-2260			
		C44-F-2290			
		C44-F-3300			
		C3L-F-5980			
		C4T-F-8670			
		C4Q-A-1297			
		C4H-F-3010			
		C4T-F-0600			
P-7640	None	C4T-F-7640	Total VOC	0.01	0.01
4P-2002	C4Q-M-5300 Baghouse	C4Q-F-5000	Particulate Matter	0.04	0.08
4P-0001	C4Q-M-0001/ C4Q-F-0001 Baghouse	C4Q-F-5010	Particulate Matter	0.01	0.01
NA	None	C4Q-F-5330	Particulate Matter	0.04	0.08

## Appendix

**Table C - CSS-7 Maximum Permitted Emissions**

Emission Point ID	Control Device	Emission Unit ID	Emissions		
			Pollutants	Hourly (pounds/hour)	Annual (tons/year)
CSS-7 No Longer in Service.					

## Appendix

**Table D - CSS-8 Maximum Permitted Emissions**

Emission Point ID	Control Device	Emission Unit ID	Emissions		
			Pollutants	Hourly (pounds/hour)	Annual (tons/year)
8E-1340	S8A-M-1340 Bin Vent	S8A-F-1410	Particulate Matter	0.01	0.06
8E-02	S8A-M-2390 Baghouse	S8A-F-2430	Particulate Matter	0.01	0.01
8E-03	S8A-M-3360 Baghouse	S8A-F-3240/ S8A-B-3010	Particulate Matter	0.09	0.40
			Ethylene Glycol	0.04	0.16
			Carbon Monoxide	0.06	0.25
			NOx	0.29	1.17
			SO2	0.01	0.01
			Total VOC	0.11	0.45
8E-04	S8B-M-2420 Baghouse	S8B-E-2250/ S8B-B-2020	Particulate Matter	0.05	0.22
			Ethylene Glycol	0.03	0.12
			Acetaldehyde	0.04	0.19
			Carbon Monoxide	0.02	0.11
			NOx	0.12	0.49
			SO2	0.01	0.01
			Total VOC	0.13	0.59
8E-05	S8D-M-1520 Baghouse	S8D-E-1280	Particulate Matter	0.02	0.08
8E-06	S8A-M-1590 Baghouse	S8E-F-1440	Particulate Matter	0.01	0.01
8EP-204A	L12-M-2030 Bin Vent	L12-F-2030	Particulate Matter	0.01	0.01
8EP-204B	L12-M-2040 Bin Vent	L12-F-2040	Particulate Matter	0.01	0.01
8P-4127A	L13-M-3050 Bin Vent	L13-F-3050	Particulate Matter	0.01	0.01
8P-4127B	L13-M-3060 Bin Vent	L13-F-3060	Particulate Matter	0.01	0.01
7P-4227A	L14-M-4070 Bin Vent	L14-F-4070	Particulate Matter	< 0.001	< 0.001
7P-4227B	L14-M-4080 Bin Vent	L14-F-4080	Particulate Matter	< 0.001	< 0.001
8ECS4	L11-M-1010 Bin Vent	L11-F-1010	Particulate Matter	0.01	0.06
8P-1030	L11-U-1030	L11-U-1040	Particulate Matter	0.01	0.05

Emission Point ID	Control Device	Emission Unit ID	Emissions		
			Pollutants	Hourly (pounds/hour)	Annual (tons/year)
8P-1050	L13-M-3110	L13-P-3100	Particulate Matter	0.01	0.05
8EP-208	L12-M-2050	L12-P-2050	Particulate Matter	0.01	0.02
7P-0430	L14-M-4030 Baghouse	L14-U-4040 L14-U-4050	Particulate Matter	0.005	0.02
7P-2660	N/A	C2T-F-2260	Total VOC's	0.01	0.01
7P-9002	N/A	C2T-F-7640	Total VOC's	0.01	0.01
2P-9001	C2T-B-9001 Hot Oil Heater	S8B-F-1420	Particulate Matter	0.04	0.16
		S8C-R-1060	Ethylene Glycol	0.05	0.19
		S8C-R-3070	Acetaldehyde	0.04	0.13
		C2T-F-2670	Total VOC	0.11	3.60
		C1T-F5660	Carbon Monoxide	0.91	6.70
		C1T-F-5001	NOx	1.70	0.20
			SO2	0.05	0.46

## Appendix

**Table E - CSS-9 Maximum Permitted Emissions**

Emission Point ID	Control Device	Emission Unit ID	Emissions		
			Pollutants	Hourly (pounds/hour)	Annual (tons/year)
9P-7040	C29-M-7040	C29-F-7010 C29-F-7020	Particulate Matter	< 0.001	0.003
9P-1701A	L15-M-5140 Bin Vent	L15-F-5100		0.01	0.01
9P-1701B	L15-M-5130 Bin Vent	L15-F-5090		0.01	0.01
9P-2701A	L16-M-6170 Bin Vent	L16-F-6120		0.01	0.01
9P-2701B	L16-M-6160 Bin Vent	L16-F-6110		0.01	0.01
9P-6110	L16-M-6130	L16-P-6120		0.01	0.02
9E-10	L17-M-7230	L17-F-7130		0.01	0.04
	Baghouse	L17-F-7140			
9E-11	L17-M-7190	L17-P-7010		0.01	0.03
9P-1010	L18-M-1010	L18-F-2010		< 0.001	< 0.003
	Baghouse	L18-F-1010			
9P-2030	L18-M-2030	L18-P-2040		0.002	0.01
9P-1030	L18-M-1030	L18-P-1040		0.01	0.06



## Appendix

**Table F - CSS-10 Maximum Permitted Emissions**

Emission Point ID	Control Device	Emission Unit ID	Emissions		
			Pollutants	Hourly (pounds/hour)	Annual (tons/year)
10P-6340	C3A-M-6340 Baghouse	C3A-F-5410	Particulate Matter	0.01	0.01
10P-6390	C3A-M-6390 Bin Vent	C3A-F-6460	Particulate Matter	0.01	0.01
10P-7350	C3A-M-7350 Baghouse	C3A-E-7240 C3A-B-7010	Particulate Matter	0.04	0.04
			Carbon Monoxide	0.02	0.09
			NOx	0.08	0.35
			SO2	0.01	0.01
			Total VOC	0.37	1.53
			Ethylene Glycol	0.30	1.25
			Acetaldehyde	0.06	0.23
10P-1130	L1A-M-1130 Bin Vent	L1A-F-1090	Particulate Matter	0.01	0.01
		L1A-F-1100			
10P-0520	C3D-M-0520 Baghouse	C3D-E-1280	Particulate Matter	0.02	0.06
		C3D-E-5280	Total VOC	0.19	0.80
			Ethylene Glycol	0.15	0.62
			Acetaldehyde	0.01	0.02
10P-6420	C3B-M-6420 Baghouse	C3B-E-6250 C3B-B-6020	Particulate Matter	0.01	0.02
			Carbon Monoxide	0.02	0.07
			NOx	0.08	0.36
			SO2	0.01	0.01
			Total VOC	0.24	1.07
			Ethylene Glycol	0.08	0.35
			Acetaldehyde	0.13	0.57
10P-5590	C3E-M-5590 Baghouse	C3E-F-5440	Particulate Matter	0.01	0.01
10P-1140	L1A-M-1030	L1A-P-1040	Particulate Matter	0.01	0.01
3P-1600	C3B-M-5430 Filter	C3B-F-5420	Included in 3P-1600 as specified in Appendix A		
	C3T-B-1600 Hot Oil Heater				
	C3C-M-5470 Filter	C3C-R-5060	Included in 3P-1600 as specified in Appendix A		
	C3T-B-1600				
4P-1101	L4C-M-0220 Bin Vent	L4C-F-0200	Particulate Matter	0.04	0.18

## Appendix

**Table G - CSS-11 Maximum Permitted Emissions**

Emission Point ID	Control Device	Emission Unit ID	Emissions		
			Pollutants	Hourly (pounds/hour)	Annual (tons/year)
11P-1340	C3A-M-1340 Baghouse	C3A-F-1410	Particulate Matter	0.01	0.01
11P-2390	C3A-M-2390 Bin Vent	C3A-F-2460	Particulate Matter	0.01	0.01
11P-3350	C3A-M-3350 Baghouse	C3A-E-3240 C3A-B-3010	Particulate Matter	0.11	0.05
			Carbon Monoxide	0.03	0.13
			NOx	0.15	0.65
			SO2	0.01	0.01
			Total VOC	0.37	1.53
			Ethylene Glycol	0.30	1.25
			Acetaldehyde	0.06	0.23
11P-2420	C3B-M-2420 Baghouse	C3B-E-2250 C3B-B-2020	Particulate Matter	0.01	0.02
			Carbon Monoxide	0.01	0.05
			NOx	0.07	0.29
			SO2	0.01	0.01
			Total VOC	0.24	1.07
			Ethylene Glycol	0.08	0.35
			Acetaldehyde	0.13	0.57
11P-1590	C3E-M-1590 Baghouse	C3E-F-1440	Particulate Matter	0.01	0.01
11P-1160	L1B-M-2160 Bin Vent	L1B-F-2110	Particulate Matter	0.01	0.01
		L1B-F-2120			
11P-2170	L1B-M-2030	L1B-P-2050	Particulate Matter	0.01	0.01
3P-1600	C3B-M-1430/ 1431 Filters C3T-B-1600 Hot Oil Heater	C38-F-1420	Included in 3P-1600 as specified in Appendix A		
	C3C-M-1470/ 1471 Filters C3T-B-1600 Hot Oil Heater	C3C-R-1060	Included in 3P-1600 as specified in Appendix A		

## Appendix

**Table H - CSS-12 Maximum Permitted Emissions**

Emission Point ID	Control Device	Emission Unit ID	Emissions		
			Pollutants	Hourly (pounds/hour)	Annual (tons/year)
4P-0340	C4A-M-0340 Baghouse	C4A-F-0410 C4A-F-0411	Particulate Matter	0.05	0.02
12P-2390	C4A-M-2390 Baghouse	C4A-F-2460	Particulate Matter	0.01	0.01
12P-3350	C4A-M-3350 Baghouse	C4A-E-3240 C4A-B-3010	Particulate Matter	0.01	0.03
			Carbon Monoxide	0.07	0.26
			NOx	0.31	1.32
			SO2	0.02	0.02
			Total VOC	0.51	2.23
			Ethylene Glycol	0.42	1.82
			Aldehyde	0.08	0.36
12P-2420	C4B-M-2420 Baghouse	C4B-E-2250 C4B-B-2020	Particulate Matter	0.01	0.03
			Carbon Monoxide	0.02	0.09
			NOx	0.08	0.34
			SO2	0.02	0.02
			Total VOC	0.32	1.43
			Ethylene Glycol	0.11	0.49
			Aldehyde	0.18	0.79
12P-0520	C4D-M-0520 Baghouse	C4D-E-1280	Particulate Matter	0.04	0.15
		C4D-E-5280	Total VOC	0.28	1.17
			Ethylene Glycol	0.22	0.92
			Acetaldehyde	0.01	0.03
12P-1590	C4E-M-1590 Baghouse	C4E-F-1440	Particulate Matter	0.01	0.01
12P-1130	L1C-M-1130 Baghouse	L1C-F-1090	Particulate Matter	0.01	0.01
		L1C-F-1110			
12P-1140	L1C-M-2030 Baghouse	L1C-P-2040	Particulate Matter	0.01	0.01
12P-0390	L4C-M-0390 Baghouse	L4C-F-0210	Particulate Matter	0.10	0.01
4P-1600	C4B-M-1430 /1431 Filter	C4B-F-1420	Part of 4P-1600 emission see Appendix B		
	C4T-B-1600 Hot Oil Heater	C4C-R-3070	Part of 4P-1600 emission see Appendix B		
	C4B-M-3700/3701 Filter C4T-B-1600 Hot Oil Heater				

Emission Point ID	Control Device	Emission Unit ID	Emissions		
			Pollutants	Hourly (pounds/hour)	Annual (tons/year)
	C4C-M- 4070/4071 Filter C4T-B-1600 Hot Oil Heater	C4C-R-1060	Part of 4P-1600 emission see Appendix B		

## Appendix

**Table I - CSS-13 Maximum Permitted Emissions**

Emission Point ID	Control Device	Emission Unit ID	Emissions		
			Pollutants	Hourly (pounds/hour)	Annual (tons/year)
13P-6390	C4A-M-6390 Baghouse	C4A-F-6460	Particulate Matter	0.01	0.01
13P-7350	C4A-M-7350 Baghouse	C4A-E-7240 C4A-B-7010	Particulate Matter	0.01	0.04
			Carbon Monoxide	0.04	0.16
			NOx	0.19	0.80
			SO2	0.01	0.01
			Total VOC	0.51	2.21
			Ethylene Glycol	0.42	1.74
			Acetaldehyde	0.08	0.36
13P-6420	C4B-M-6420 Baghouse	C4B-E-6250 C4B-B-6020	Particulate Matter	0.01	0.03
			Carbon Monoxide	0.03	0.15
			NOx	0.12	0.51
			SO2	0.01	0.01
			Total VOC	0.32	1.43
			Ethylene Glycol	0.11	0.49
			Acetaldehyde	0.18	0.79
13P-5590	C4E-M-5590 Baghouse	C4E-F-5440	Particulate Matter	0.01	0.01
13P-1130	L1C-M-1130 Baghouse	L1D-F-1110	Particulate Matter	0.01	0.01
		L1D-F-1120			
13P-1170	L1D-M-2030 Baghouse	L1D-P-2040	Particulate Matter	0.01	0.01
4P-1600	C4B-M-5430 Filter	C4B-F-5420	Part of 4P-1600 emission see Appendix B		
	C4T-B-1600 Hot Oil Heater				
	C4C-M-7700 Filter	C4C-R-7070	Part of 4P-1600 emission see Appendix B		
	C4T-B-1600 Hot Oil Heater				
	C4C-M-5470 Filter	C4C-R-5060	Part of 4P-1600 emission see Appendix B		
	C4T-B-1600 Hot Oil Heater				

**Appendix**  
**Table J - Boilers and Heaters Maximum Permitted Emissions**

Emission Point ID	Control Device	Emission Unit ID	Emissions									
			CO		NO <sub>x</sub>		PM <sub>10</sub>		SO <sub>x</sub>		VOC	
			lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
U-B-2010 (old U-B-2010)	None	UGS-B-2010	1.17	3.43	1.40	4.08	0.11	0.31	0.01	0.03	0.08	0.23
U-B-1633 (old U-B-1004)	None	U3S-B-1633	0.021	0.094	0.025	0.112	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1100 (old U-B-1005)	None	U3S-B-1100	0.021	0.094	0.025	0.112	0.002	0.008	0.000	0.001	0.001	0.006
U-G-1631 (old U-B-1050)	None	U3S-G-1631	0.021	0.094	0.025	0.112	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1632 (old U-B-1060)	None	U3S-G-1632	0.021	0.094	0.025	0.112	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1071 (old U-B-4001)	None	U2S-B-1071	0.021	0.094	0.025	0.112	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1072 (old U-B-4002)	None	U2S-B-1072	0.021	0.094	0.025	0.112	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1010 (old U-B-1006)	None	U4S-B-1010	0.021	0.094	0.025	0.112	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1851 (old U-B-1007)	None	MDU-B-1851	0.021	0.090	0.025	0.107	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1852 (old U-B-4003)	None	MDU-B-1852	0.021	0.090	0.025	0.107	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1853 (old U-B-4004)	None	MDU-B-1853	0.021	0.090	0.025	0.107	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1000	None	MDU-B-1000	0.008	0.036	0.010	0.043	0.001	0.003	0.000	0.000	0.001	0.002
U-B-1001	None	MDU-B-1001	0.010	0.045	0.012	0.054	0.001	0.004	0.000	0.000	0.001	0.003
U-B-1002	None	MDU-B-1002	0.021	0.094	0.025	0.112	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1003	None	MDU-B-1003	0.016	0.072	0.020	0.086	0.001	0.007	0.000	0.001	0.001	0.005
U-B-1004	None	MDU-B-1004	0.016	0.072	0.020	0.086	0.001	0.007	0.000	0.001	0.001	0.005
U-B-1005	None	MDU-B-1005	0.016	0.072	0.020	0.086	0.001	0.007	0.000	0.001	0.001	0.005
U-B-1006	None	MDU-B-1006	0.021	0.094	0.025	0.112	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1007	None	MDU-B-1007	0.021	0.094	0.025	0.112	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1008	None	MDU-B-1008	0.021	0.094	0.025	0.112	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1009	None	MDU-B-1009	0.010	0.045	0.012	0.054	0.001	0.004	0.000	0.000	0.001	0.003
U-B-1010	None	MDU-B-1010	0.010	0.045	0.012	0.054	0.001	0.004	0.000	0.000	0.001	0.003
U-B-1011	None	MDU-B-1011	0.014	0.060	0.016	0.071	0.001	0.005	0.000	0.000	0.001	0.004
U-B-1012	None	MDU-B-1012	0.014	0.060	0.016	0.071	0.001	0.005	0.000	0.000	0.001	0.004
U-B-1013	None	MDU-B-1013	0.021	0.094	0.025	0.112	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1014	None	MDU-B-1014	0.016	0.072	0.020	0.086	0.001	0.007	0.000	0.001	0.001	0.005
U-B-1015	None	MDU-B-1015	0.014	0.060	0.016	0.071	0.001	0.005	0.000	0.000	0.001	0.004
U-B-1016	None	MDU-B-1016	0.016	0.072	0.020	0.086	0.001	0.007	0.000	0.001	0.001	0.005
U-B-1017	None	MDU-B-1017	0.021	0.094	0.025	0.112	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1018	None	MDU-B-1018	0.021	0.094	0.025	0.112	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1019	None	MDU-B-1019	0.021	0.094	0.025	0.112	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1020	None	MDU-B-1020	0.016	0.072	0.020	0.086	0.001	0.007	0.000	0.001	0.001	0.005
U-B-1021	None	MDU-B-1021	0.016	0.072	0.020	0.086	0.001	0.007	0.000	0.001	0.001	0.005

Emission Point ID	Control Device	Emission Unit ID	Emissions									
			CO		NO <sub>x</sub>		PM <sub>10</sub>		SO <sub>x</sub>		VOC	
			lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
U-B-1022	None	MDU-B-1022	0.021	0.090	0.025	0.107	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1023	None	MDU-B-1023	0.021	0.094	0.025	0.112	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1024	None	MDU-B-1024	0.021	0.094	0.025	0.112	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1025	None	MDU-B-1025	0.021	0.090	0.025	0.107	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1026	None	MDU-B-1026	0.021	0.090	0.025	0.107	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1027	None	MDU-B-1027	0.016	0.072	0.020	0.086	0.001	0.007	0.000	0.001	0.001	0.005
U-B-1081	None	MDU-B-1081	0.021	0.090	0.025	0.107	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1082	None	MDU-B-1082	0.021	0.090	0.025	0.107	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1083	None	MDU-B-1083	0.021	0.090	0.025	0.107	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1401	None	MDU-B-1401	0.021	0.090	0.025	0.107	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1402	None	MDU-B-1402	0.021	0.090	0.025	0.107	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1403	None	MDU-B-1403	0.021	0.090	0.025	0.107	0.002	0.008	0.000	0.001	0.001	0.006
U-B-1404	None	MDU-B-1404	0.021	0.090	0.025	0.107	0.002	0.008	0.000	0.001	0.001	0.006
Total			0.843	3.694	1.004	4.397	0.076	0.334	0.006	0.026	0.055	0.242

## Appendix

**Table K - Emergency Electric Generator Permitted Emissions**

Emission Point ID	Control Device	Emission Unit ID	Emissions		
			Pollutants	Hourly (pounds/hour)	Annual <sup>(1)</sup> (tons/year)
DGM-U-1010	None	DGM-U-1010	Particulate Matter	0.04	0.01
			Carbon Monoxide	0.26	0.07
			NOx	2.42	0.61
			SO2	0.51	0.13
			Total VOC	0.67	0.17

<sup>(1)</sup> Based on operating the generator a maximum of 500 hr/yr.



## Appendix

**Table L - Warehouse Permitted Emissions**

Emission Point ID	Control Device	Emission Unit ID	Emissions		
			Pollutants	Hourly (pounds/hour)	Annual (tons/year)
WF-6010	L26-M-6010 Baghouse	L26-F-6010	PM/PM10	<0.01	<0.01
D56	None	MS11717	PM/PM10	<0.01	<0.01
4P-1010	L31-M-1010 Bin Vent	L31-F-1010	PM/PM10	0.0011	<0.001
4P-1060	L31-M-1060 Baghouse	L37-P-1060	PM/PM10	0.0011	<0.001
7P-0607	L36-M-6060 Bin Vent	L36-F-6040	PM/PM10	0.002	<0.001
10P-1050	L3A-M-1050 Bin Vent	L3A-F-1030	PM/PM10	<0.001	<0.001
10P-1100	L3A-M-1070 Baghouse	P-1310	PM/PM10	0.001	0.004
11P-1090	L3B-M-2060 Bin Vent	L3B-F-2040	PM/PM10	0.0011	<0.001
11P-1080	L3B-M-2080 Baghouse	P-2350	PM/PM10	0.001	0.004
7EC-15	L21-M-1050 Bin Vent	L21-F-1020	PM/PM10	<0.001	0.004
7P-1510	L22-M-2120 Bin Vent	L22-F-2040	PM/PM10	<0.001	0.004

### CERTIFICATION OF DATA ACCURACY

I, the undersigned, hereby certify that, based on information and belief formed after reasonable inquiry, all information contained in the attached \_\_\_\_\_, representing the period beginning \_\_\_\_\_ and ending \_\_\_\_\_, and any supporting documents appended hereto, is true, accurate, and complete.

Signature<sup>1</sup>

(please use blue ink)

\_\_\_\_\_  
Responsible Official or Authorized Representative

\_\_\_\_\_  
Date

Name and Title

(please print or type)

\_\_\_\_\_  
Name

\_\_\_\_\_  
Title

Telephone No. \_\_\_\_\_

Fax No. \_\_\_\_\_

<sup>1</sup> This form shall be signed by a "Responsible Official." "Responsible Official" means one of the following:

- a. For a corporation: The president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:
  - (I) the facilities employ more than 250 persons or have a gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars), or
  - (ii) the delegation of authority to such representative is approved in advance by the Director;
- b. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;
- c. For a municipality, State, Federal, or other public entity: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of USEPA); or
- d. The designated representative delegated with such authority and approved in advance by the Director.